

Date

ROUTING AND TRANSMITTAL SLIP

12/12/89

TO: (Name, office symbol, room number,
building, Agency/Post)

Initials

Date

1.

Bob Kievit - woo

2.

3.

4.

5.

<input checked="" type="checkbox"/> Action ?	File	Note and Return
<input type="checkbox"/> Approval	For Clearance	<input checked="" type="checkbox"/> Per Conversation
<input checked="" type="checkbox"/> As Requested	For Correction	Prepare Reply
<input type="checkbox"/> Circulate	<input checked="" type="checkbox"/> For Your Information	See Me
<input type="checkbox"/> Comment	Investigate	Signature
<input type="checkbox"/> Coordination	Justify	

REMARKS

USEPA SF



1371168

DO NOT use this form as a RECORD of approvals, concurrences, disposals,
clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

Room No.—Bldg.

Phone No.

D. Bennett

TABLE 6.6
POSITIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS IN GROUND WATER
(ug/l)

COMPOUND	FEDERAL DRINKING WATER GUIDELINES HIGHEST SAFE LEVEL	SAMPLE LOCATION		
		EE-2	EE-3	JUB-2
1,1-DICHLOROETHYLENE	400	5.0	50.0U	13.0
1,1-DICHLOROETHANE	-	15.0	64.0	35.0
TRANS-1, 2-DICHLOROETHYLENE	270	9.0	50.0U	15.0
CHLOROFORM	100	3.0	50.0U	17.0
1,1,1-TRICHLOROETHANE	1000	70.0	420.0	168.0
TRICHLOROETHYLENE	4.5	65.0	480.0	164.0
TETRACHLOROETHYLENE	3.5	32.0	5.0U	5.0U
TOLUENE	-	5.0U	230.0	5.0U
TOTAL XYLENE	620	5.0U	63.0	5.0U

From E+E (86)

FAX TO: ALCHEM⁽²⁰⁵⁾ 336 1461

10/5/89

RF

SUE - THESE ARE PASCO REQUIREMENTS

PLEASE ANALYSE THE ANNUALS YOU JUST REC'D ACCORDINGLY.

PASCO LANDFILL WELL MEASUREMENTS					
	SOLVENTS	TOTAL Fe Mn Cu Ba	HERBICIDES 24D, 245T, 245TP	MFS PARAMETERS	STATIC H2O LEVEL
JUB CONTROL	1/QTR	1/QTR		1/QTR	1/QTR
JUB2	1/QTR	1/QTR		1/QTR	1/QTR
EE3	1/QTR	1/QTR	1/YR	1/QTR	1/QTR
JUB4	1/QTR	1/QTR		1/QTR	1/QTR
EE2	1/QTR	1/QTR	1/YR		1/QTR
EE1	1/YR	1/YR			1/QTR
EE4	1/YR	1/YR	1/YR		1/QTR
EE5	1/YR	1/YR	1/YR		1/QTR
EE6	1/YR	1/YR			1/QTR
EE7	1/YR	1/YR			1/QTR
EE8	1/YR	1/YR			1/QTR
WATER SUPPLY	1/YR	1/YR			1/QTR
JUB1					1/QTR
JUB3					1/QTR
EE9					1/QTR

NO WATER QUAL. REQ'TS.
NO WATER QUAL. REQ'TS.
WELL DESTROYED

ANNUALLY
Organic Solvents

1,1-Dichloroethylene
1,1-Dichloroethane
Trichloroethylene
Chloroform
1,1,1-Trichloroethane
Trichloroethylene
Tetrachloroethylene
Toluene
Total Xylene

QUARTERLY
Organic Solvents

1,1-Dichloroethylene
1,1-Dichloroethane
Trichloroethylene
Chloroform
1,1,1-Trichloroethane
Trichloroethylene
Tetrachloroethylene
Toluene
Total Xylene
Vinyl Chloride

QUARTERLY
Minimum Functional
Standard Contaminants

Temperature
Conductivity
pH
Chloride
Nitrate, Nitrite, and Ammonia
as Nitrogen
Sulfate
Dissolved Iron
Dissolved Zinc and Manganese
Chemical Oxygen Demand
Total Organic Carbon
Total Coliform

Technico & Enviro Services Co.

FILE/2

(509) 7357283

Suite 33

1776 Fowler

Richland, Wa. 99352

December 5, 1988

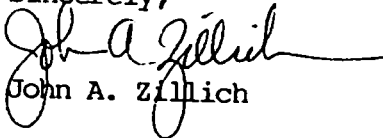
Mr. Cris Matthews
Solid Waste Coordinator
Environmental Quality Div.
Washington Dept. of Ecology
N. 4601 Monroe Street
Suite 100
Spokane, WA 99205-1295

Subject: Groundwater Monitoring Results at the Pasco
Sanitary Landfill

Dear Mr. Matthews:

This letter provides you with the water quality monitoring results for the fourth quarter of 1988. Wells requiring annual sampling will be sampled before the end of December.

Sincerely,


John A. Zillich

JAZ/tg

Enclosure

cc: Larry Dietrich
Larry Kamberg

PLF FIELD MEAS 10/88

				GROUND WATER					
	SITE: PASCO			ELEVATION DATA SHEET					
	DATE: 10/88								
	WELL NO.	DATE	MEASURED AT	TOP OF CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	SPEC COND	pH	TEMP C
	JUB CONTROL	10/26/88	TOP OF PVC	411.6	54.24	357.36	520	7.8	14.4
	JUB 1	10/26/88	TOP OF PVC	417.1	69.97	347.13			
	JUB 2	10/26/88	HOLE IN CAP	408.3	60.81	347.50	590	7.75	17.0
	JUB 3	10/26/88	TOP OF PVC	420.4	74.28	346.12			
	JUB 4	10/26/88	TOP OF PVC	393.7			660	7.4	16.3
	EE 1	10/26/88	TOP OF PIPE	417.2	59.73	357.47			
	EE 2	10/26/88	HOLE IN CAP	418.9	68.73	350.14	650	7.6	16.4
	EE 3	10/26/88	HOLE IN CAP	416.8	67.14	349.63	775	7.05	17.0
	EE 4	10/26/88	TOP OF PIPE	397.6	47.30	350.30			
	EE 5	10/26/88	TOP OF PIPE	407.9	56.07	351.83			
	EE 6	10/26/88	TOP OF PIPE	427.0	73.96	353.04			
	EE 7	10/26/88	TOP OF PIPE	425.6	73.09	352.51			
	EE 8	10/26/88	TOP OF PIPE	428.4	75.52	352.88			

ALCHEM LABORATORY

250 S. Beechwood Avenue, Suite II
Boise, Idaho 83709
(208) 376-2257

LABORATORY REPORT

TECHNICO-ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILLICH
SOURCE -: D-I BLANK

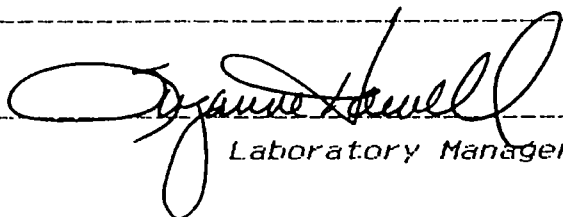
DATE COLLECTED - - -10/27/88
TIME COLLECTED - - -
DATE RECEIVED - - - 10/28/88
DATE REPORTED - - - 11/07/88
SUBMITTED : JOHN ZILLICH

LAB SAMPLE NUMBER - 5574

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
IRON (DISS.)	0.06	10/31/88	KS
MANGANESE (DISS.)	<0.01	10/31/88	KS
ZINC (DISS.)	0.011	10/31/88	RC

This report for the exclusive use of the client(s) to whom it is addressed. Its disclosure to others for use in advertising is not authorized. These results refer only to the specific sample tested. Liability is limited to cost of analysis.


Laboratory Manager

ALCHEM LABORATORY

250 S. Beechwood Avenue, Suite II
Boise, Idaho 83709
(208) 376-2257

LABORATORY REPORT

TECHNICO-ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILLICH
SOURCE -: EE 2

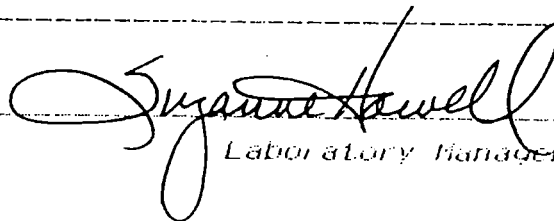
DATE COLLECTED - - - 10/27/88
TIME COLLECTED - - -
DATE RECEIVED - - - 10/28/88
DATE REPORTED - - - 11/07/88
SUBMITTED : JOHN ZILLICH

LAB SAMPLE NUMBER - 5573

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHEMICAL OXYGEN DEMAND	9.0	10/31/88	RC
BARIUM	0.10	11/07/88	DM
COPPER	<0.01	10/31/88	SH
IRON	0.08	10/31/88	KS
MANGANESE	<0.01	10/31/88	KS
ZINC	0.001	10/31/88	RC
IRON (DISS.)	<0.01	10/31/88	KS
MANGANESE (DISS.)	<0.01	10/31/88	KS
ZINC (DISS.)	<0.001	10/31/88	RC

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Laboratory Manager

ALCHEM LABORATORY

250 S. Beechwood Avenue, Suite II
Boise, Idaho 83709
(208) 376-2257

LABORATORY REPORT

TECHNICO-ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: JUB 2

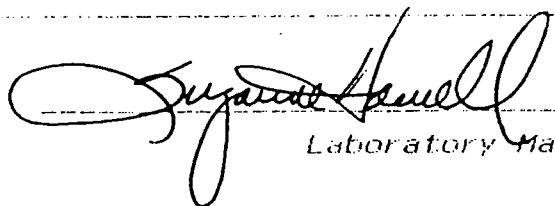
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TIME COLLECTED - - -
DATE RECEIVED - - - 10/28/88
DATE REPORTED - - - 11/07/88
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 5572

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHEMICAL OXYGEN DEMAND	4.0	10/31/88	RC
BARIUM	<0.10	11/07/88	DM
COPPER	<0.01	10/31/88	SH
IRON	0.05	10/31/88	KS
MANGANESE	<0.01	10/31/88	KS
ZINC	0.001	10/31/88	RC
IRON (DISS.)	0.25	10/31/88	KS
MANGANESE (DISS.)	<0.01	10/31/88	KS
ZINC (DISS.)	0.002	10/31/88	RC

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Laboratory Manager

ALCHEM LABORATORY

250 S. Beechwood Avenue, Suite II
Boise, Idaho 83709
(208) 376-2257

LABORATORY REPORT

TECHNICO-ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: JUB CONTROL

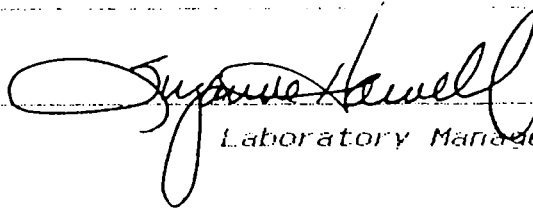
DATE COLLECTED - - - 10/27/88
TIME COLLECTED - - -
DATE RECEIVED - - - 10/28/88
DATE REPORTED - - - 11/07/88
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 5571

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
TOTAL COLIFORM	13	10/28/88	KS
CHEMICAL OXYGEN DEMAND	10.0	10/31/88	RC
BARIUM	0.10	11/07/88	DM
COPPER	<0.01	10/31/88	SH
IRON	0.09	10/31/88	KS
MANGANESE	<0.01	10/31/88	KS
ZINC	0.002	10/31/88	RC
IRON (DISS.)	<0.01	10/31/88	KS
MANGANESE (DISS.)	<0.01	10/31/88	KS
ZINC (DISS.)	0.009	10/31/88	RC

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Laboratory Manager

ALCHEM LABORATORY

250 S. Beechwood Avenue, Suite II
Boise, Idaho 83709
(208) 376-2257

LABORATORY REPORT

TECHNICO-ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILLICH
SOURCE -: BE 3

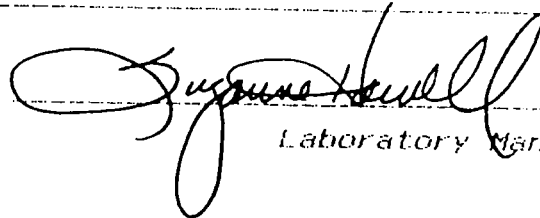
DATE COLLECTED - - -10/27/88
TIME COLLECTED - - -
DATE RECEIVED - - - 10/28/88
DATE REPORTED - - - 11/07/88
SUBMITTED : JOHN ZILLICH

LAB SAMPLE NUMBER - 5570

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
TOTAL COLIFORM	5	10/28/88	KS
CHEMICAL OXYGEN DEMAND	18.0	10/31/88	RC
BARIUM	0.20	11/07/88	DM
COPPER	<0.01	10/31/88	SH
IRON	12.70	10/31/88	KS
MANGANESE	1.37	10/31/88	KS
ZINC	0.004	10/31/88	RC
IRON (DISS.)	11.64	10/31/88	KS
MANGANESE (DISS.)	1.33	10/31/88	KS
ZINC (DISS.)	0.001	10/31/88	RC

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Laboratory Manager

ALCHEM LABORATORY

250 S. Beechwood Avenue, Suite II
Boise, Idaho 83709
(208) 376-2257

received
11 9/88

LABORATORY REPORT

TECHNICO-ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: JUB 4

DATE COLLECTED - - - 10/27/88
TIME COLLECTED - - -
DATE RECEIVED - - - 10/28/88
DATE REPORTED - - - 11/07/88
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 5569

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
TOTAL COLIFORM	** <1	10/28/88	KS
CHEMICAL OXYGEN DEMAND	7.0	10/31/88	RC
BARIUM	0.20	11/07/88	DM
COPPER	<0.01	10/31/88	SH
IRON	0.06	10/31/88	KS
MANGANESE	<0.01	10/31/88	KS
ZINC	0.003	10/31/88	RC
IRON (DISS.)	<0.01	10/31/88	KS
MANGANESE (DISS.)	<0.01	10/31/88	KS
ZINC (DISS.)	<0.001	10/31/88	RC

COMMENTS: ** NO INTESTINAL BACTERIA WERE FOUND ON CULTURE PLATE. **

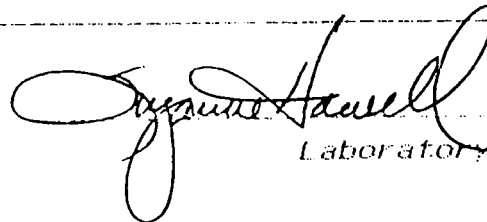
This report for the exclusive use of the client(s) to whom it is addressed. Its disclosure to others for use in advertising is not authorized. These results refer only to the SPECIFIC SAMPLE SUBMITTED. LIABILITY IS LIMITED TO COST OF ANALYSIS.

The Blank has
been subtracted

from the Diss

metals. Results

with blank subtraction
and blank subtraction



Laboratory Manager



Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

ANALYTICAL REPORT

Technico & Environmental
201 West 33rd Avenue
Kennewick, Washington 99337

ATTENTION: Mr. John Zillich

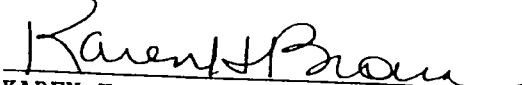
IDENTIFICATION: Water Samples
PASCO LANDFILL

DATE SAMPLE RECEIVED: 11/02/88
MONTH COVERED: November, 1988
CLIENT NUMBER: TEC200
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: November 23, 1988
Page 2 of 2

<u>SAMPLE NUMBER:</u>	<u>CLIENT I.D.</u>	<u>TOC</u>	<u>UNITS</u>
09639	JUB Control	18.1 18.7 (Rep)	mg/l
09640	JUB2	15.9	mg/l
09641	JUB4	19.4	mg/l
09642	EE2	N/A	mg/l
09643	EE3	34.1 34.6 (Rep)	mg/l

D. I. Blank - <1.00
46 mg/l Check Standard - 49.2
Acceptable Range - 35-57
Spike Recovery - 97%
Date Analyzed - 11/3/88
Analyst - DD

APPROVED BY:


KAREN H. BROWN
LABORATORY MANAGER



Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

ANALYTICAL REPORT

received
12/1/88

Technico & Environmental
201 West 33rd Avenue
Kennewick, Washington 99337

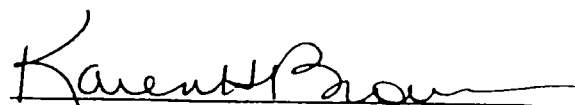
ATTENTION: Mr. John Zillich

DATE SAMPLE RECEIVED: 11/02/88
MONTH COVERED: November, 1988
CLIENT NUMBER: TEC200
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: November 23, 1988
Page 1 of 2

IDENTIFICATION: Water Samples
PASCO LANDFILL

SAMPLE NUMBER:	09639	09640	09641	09642	09643	
CLIENT ID:	JUB CONTROL	JUB2	JUB4	EE2	EE3	UNITS
Vinyl Chloride	<5	<5	N/A	<5	<5	µg/l
1,1-Dichloroethylene	<5	35	N/A	<5	18	µg/l
1,1-Dichloroethane	<5	85	N/A	6	130	µg/l
Chloroform	<5	54	N/A	<5	44	µg/l
1,1,1-Trichloroethane	<5	230	N/A	40	291	µg/l
Trichloroethylene	<5	50	N/A	<5	112	µg/l
Tetrachloroethylene	<5	<5	N/A	<5	9	µg/l
Total Xylenes	<5	14	N/A	<5	85	µg/l

APPROVED BY:


KAREN H. BROWN
LABORATORY MANAGER

WATER BACTERIOLOGICAL ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDENROD COPY

If instructions are not followed, sample will be rejected.

DATE COLLECTED MONTH DAY YEAR 10/26/88		TIME COLLECTED 2:00 PM <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	COUNTY NAME JACKSON
TYPE OF SYSTEM <input type="checkbox"/> PUBLIC <input type="checkbox"/> INDIVIDUAL (serves only 1 residence)		IF PUBLIC SYSTEM, COMPLETE: I.D. No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> CIRCLE CLASS 1 2 3 4	
NAME OF SYSTEM JWB 2 Well			
SPECIFIC LOCATION WHERE SAMPLE COLLECTED (e.g. kitchen tap @ school, fire station, fountain) J B 2 Well		SYSTEM OWNER/MGR. NAME AND TELEPHONE NO. Peters, J. L. ()	
SAMPLE COLLECTED BY: (Name) Zell			
SOURCE TYPE <input type="checkbox"/> SURFACE <input type="checkbox"/> WELL <input type="checkbox"/> SPRING <input type="checkbox"/> PURCHASED <input type="checkbox"/> COMBINATION or OTHER			
SEND REPORT TO: (Print Full Name, Address and Zip Code) Zell, T. L. 1776 Fowler Richland WASHINGTON			
TYPE OF SAMPLE (Check only one in this column)			
1. <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> Chlorinated (Residual: _____ Total _____ Free) check treatment → <input type="checkbox"/> Filtered <input type="checkbox"/> Untreated or Other _____			
2. <input type="checkbox"/> RAW SOURCE WATER			
3. <input type="checkbox"/> NEW CONSTRUCTION or REPAIRS			
4. <input type="checkbox"/> OTHER (Specify) _____			
COMPLETE IF THIS SAMPLE IS A CHECK SAMPLE			
PREVIOUS LAB NO. _____			
PREVIOUS SAMPLE COLLECTION DATE _____			
REMARKS:			

LABORATORY RESULTS (FOR LAB USE ONLY)

MPN - COLIFORM 5/5 tubes positive	STD PLATE COUNT _____/ml	SAMPLE NOT TESTED BECAUSE: <input type="checkbox"/> Sample too old <input type="checkbox"/> Not in Proper Container <input type="checkbox"/> Insufficient Information Provided—Please Read Instructions on Form
MPN DILUTION _____/100 ml	TEST UNSUITABLE 1. <input type="checkbox"/> Confluent Growth 2. <input type="checkbox"/> TNTC 3. <input type="checkbox"/> Excess Debris 4. <input type="checkbox"/> _____	
MF COLIFORM _____/100 ml		
FECAL COLIFORM <input type="checkbox"/> MPN <input type="checkbox"/> MF _____/100 ml		

FOR DRINKING WATER SAMPLES ONLY, THESE RESULTS ARE:

☐ SATISFACTORY ☒ UNSATISFACTORY

SEE REVERSE SIDE OF GREEN COPY FOR EXPLANATION OF RESULTS

LAB NO. 6203569	DATE, TIME RECEIVED— 10-26-88 4:15	RECEIVED BY DM
DATE REPORTED 10-28-88	LABORATORY:	
REMARKS		

WATER SUPPLIER COPY

WATER BACTERIOLOGICAL ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDENROD COPY

If instructions are not followed, sample will be rejected.

DATE COLLECTED MONTH DAY YEAR 10/26/88		TIME COLLECTED 1:00 PM <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	COUNTY NAME JACKSON
TYPE OF SYSTEM <input type="checkbox"/> PUBLIC <input type="checkbox"/> INDIVIDUAL (serves only 1 residence)		IF PUBLIC SYSTEM, COMPLETE: I.D. No. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> CIRCLE CLASS 1 2 3	
NAME OF SYSTEM FE 3 Well			
SPECIFIC LOCATION WHERE SAMPLE COLLECTED (e.g. kitchen tap @ school, fire station, fountain) FE 3 Well		SYSTEM OWNER/MGR. NAME AND TELEPHONE NO. Peters, J. L. ()	
SAMPLE COLLECTED BY: (Name) Zell			
SOURCE TYPE <input type="checkbox"/> SURFACE <input type="checkbox"/> WELL <input type="checkbox"/> SPRING <input type="checkbox"/> PURCHASED <input type="checkbox"/> COMBINATION or OTHER			
SEND REPORT TO: (Print Full Name, Address and Zip Code) Zell, T. L. 1776 Fowler Richland WASHINGTON			
TYPE OF SAMPLE (Check only one in this column)			
1. <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> Chlorinated (Residual: _____ Total _____ Free) check treatment → <input type="checkbox"/> Filtered <input type="checkbox"/> Untreated or Other _____			
2. <input type="checkbox"/> RAW SOURCE WATER			
3. <input type="checkbox"/> NEW CONSTRUCTION or REPAIRS			
4. <input type="checkbox"/> OTHER (Specify) _____			
COMPLETE IF THIS SAMPLE IS A CHECK SAMPLE			
PREVIOUS LAB NO. _____			
PREVIOUS SAMPLE COLLECTION DATE _____			
REMARKS:			

LABORATORY RESULTS (FOR LAB USE ONLY)

MPN - COLIFORM 5/5 tubes positive	STD PLATE COUNT _____/ml	SAMPLE NOT TESTED BECAUSE: <input type="checkbox"/> Sample too old <input type="checkbox"/> Not in Proper Container <input type="checkbox"/> Insufficient Information Provided—Please Read Instructions on Form
MPN DILUTION _____/100 ml	TEST UNSUITABLE 1. <input type="checkbox"/> Confluent Growth 2. <input type="checkbox"/> TNTC 3. <input type="checkbox"/> Excess Debris 4. <input type="checkbox"/> _____	
MF COLIFORM _____/100 ml		
FECAL COLIFORM <input type="checkbox"/> MPN <input type="checkbox"/> MF _____/100 ml		

FOR DRINKING WATER SAMPLES ONLY, THESE RESULTS ARE:

☐ SATISFACTORY ☒ UNSATISFACTORY

SEE REVERSE SIDE OF GREEN COPY FOR EXPLANATION OF RESULTS

LAB NO. 6203568	DATE, TIME RECEIVED— 10-26-88 4:15	RECEIVED BY DM
DATE REPORTED 10-29-88	LABORATORY:	
REMARKS		

WATER SUPPLIER COPY

**Results for October Sampling
at Pasco Sanitary Landfill**

Location	Date	Cl	SO ₄
JUB Control	10/27/88	28	31.6
EE 3	10/26/88	45	20.6
JUB 2	10/26/88	30	34.5
JUB 4	10/27/88	21	31.1

FIG.4. TETRACHLOROETHYLENE EE3 VS JUB2.

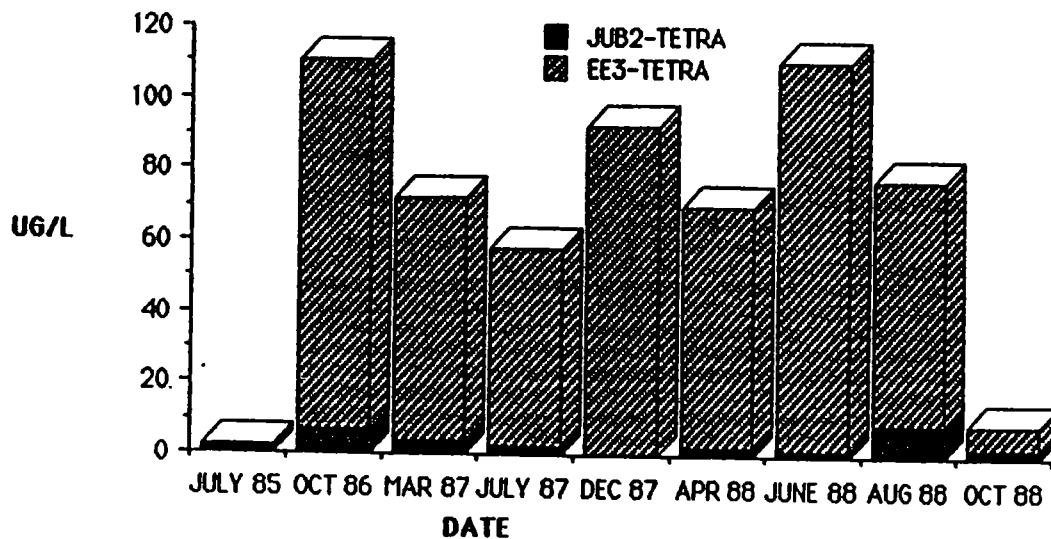
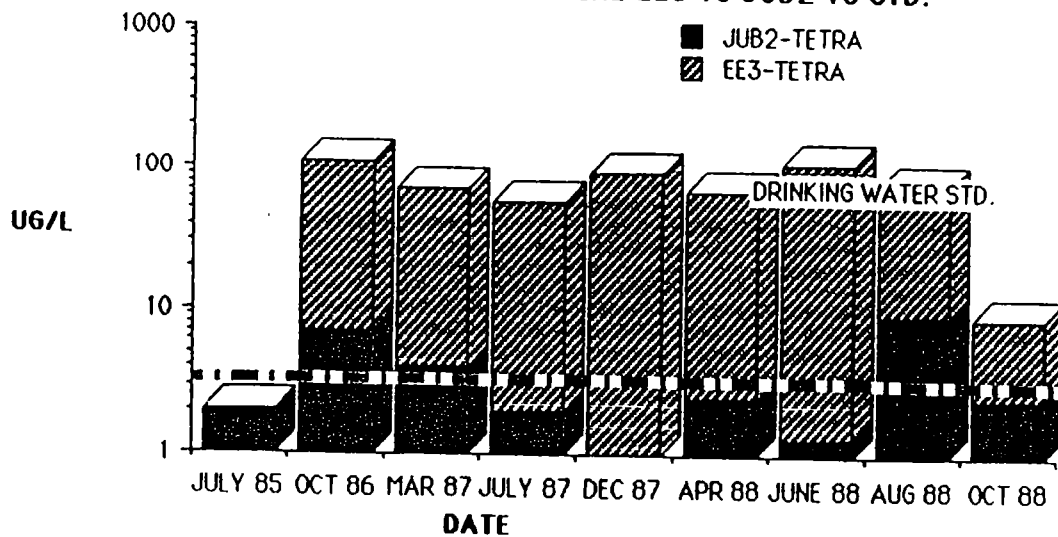
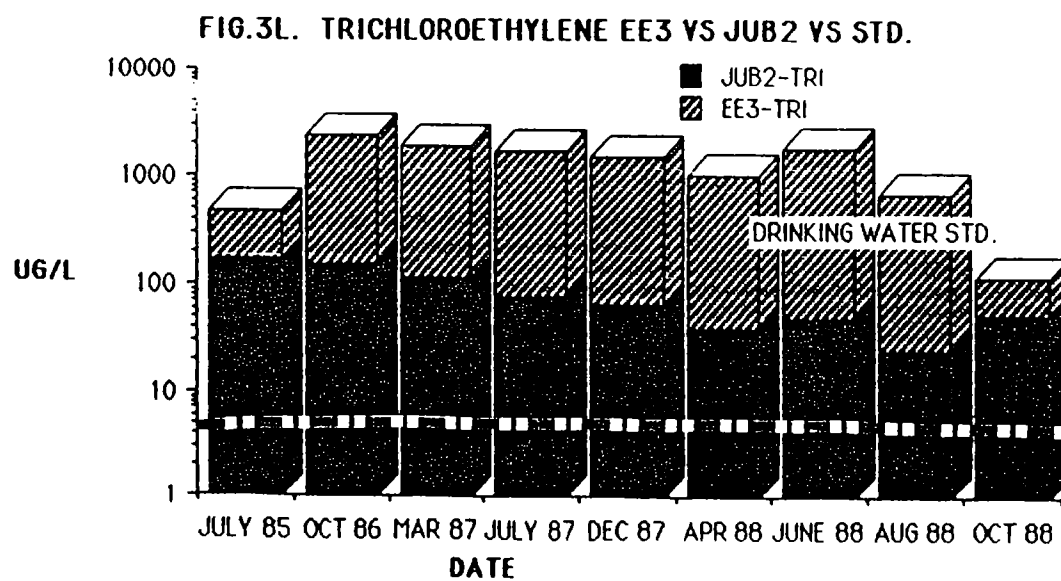
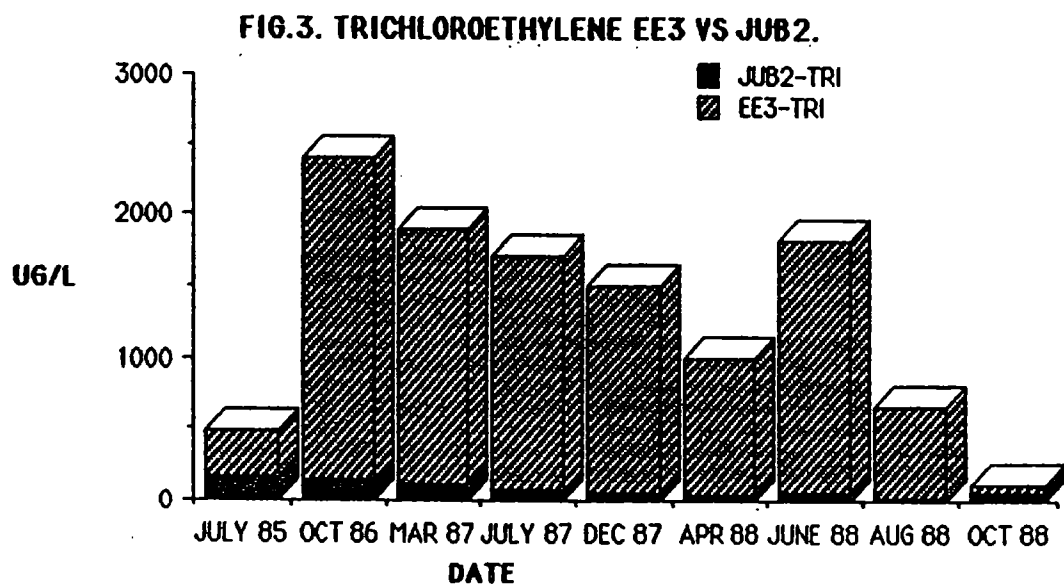
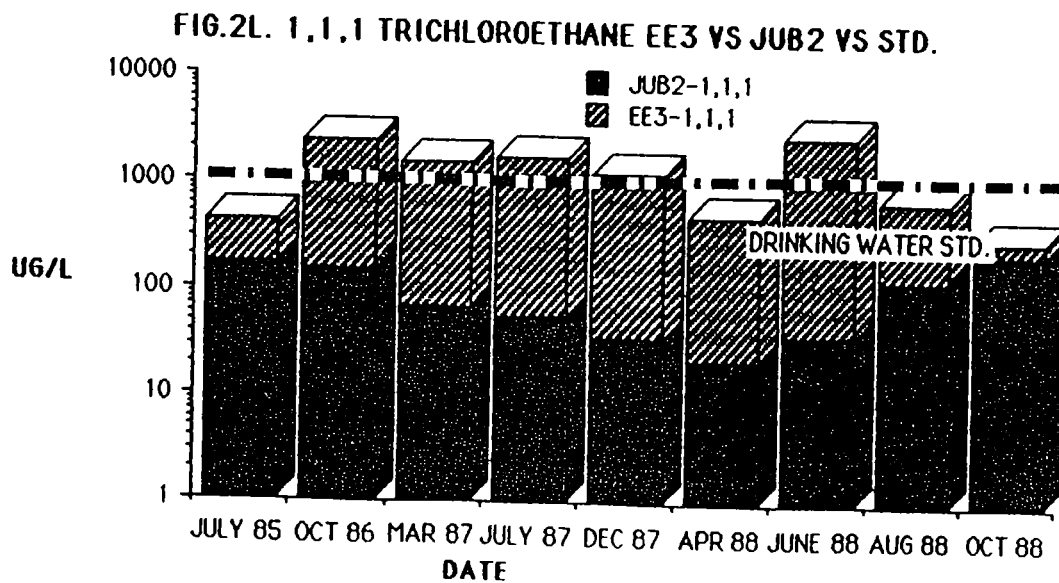
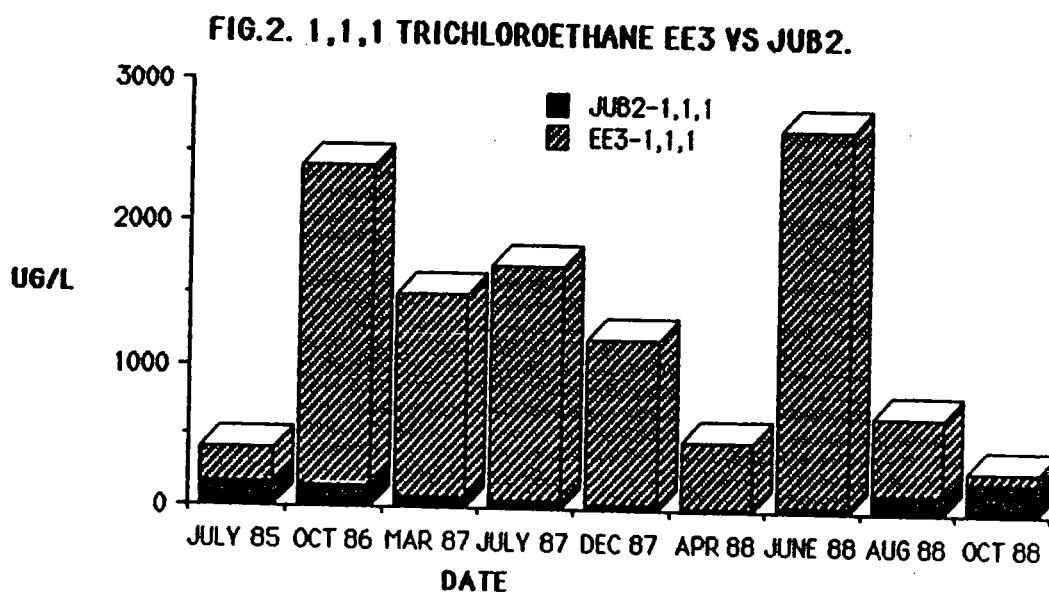


FIG.4L. TETRACHLOROETHYLENE EE3 VS JUB2 VS STD.







JOB No. 12532 DATE: 10/27/88

Sample No. B1020GVD.WA1

Matrix: Water Analysis: GC-PID

Surrogate
Compound

Percent
Recovery

Comment

Control
Limits

4-Chlorotoluene

100

20 - 150

Sample No. 01

Matrix: Water Analysis: GC-PID

Surrogate
Compound

Percent
Recovery

Comment

Control
Limits

4-Chlorotoluene

88

20 - 150

Sample No. 02@1/2

Matrix: Water Analysis: GC-PID

Surrogate
Compound

Percent
Recovery

Comment

Control
Limits

4-Chlorotoluene

83

20 - 150

JOB No. 12532 DATE: 10/27/88

Sample No. B1020GVD.WA1

Matrix: Water Analysis: GC-PID

Surrogate
Compound

Percent
Recovery

Comment

Control
Limits

4-Chlorotoluene

100

20 - 150

Sample No. 01

Matrix: Water Analysis: GC-PID

Surrogate
Compound

Percent
Recovery

Comment

Control
Limits

4-Chlorotoluene

88

20 - 150

Sample No. 02@1/2

Matrix: Water Analysis: GC-PID

Surrogate
Compound

Percent
Recovery

Comment

Control
Limits

4-Chlorotoluene

83

20 - 150

JOB No. 12532 DATE: 10/27/88

Sample No. B1020GVD.WA1

Matrix: Water Analysis: GC-HALL

Surrogate
Compound

Percent
Recovery

Comment

Control
Limits

4-Bromofluorobenzene
4-Chlorotoluene

97
101

76 - 121
20 - 150

Sample No. 01

Matrix: Water Analysis: GC-HALL

Surrogate
Compound

Percent
Recovery

Comment

Control
Limits

Bromochloromethane
4-Chlorotoluene

78
74

73 - 125
20 - 150

Sample No. 02@1/2

Matrix: Water Analysis: GC-HALL

Surrogate
Compound

Percent
Recovery

Comment

Control
Limits

4-Bromofluorobenzene
4-Chlorotoluene

78
71

76 - 121
20 - 150



Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Technico & Environmental Services
201 West 33rd Avenue
Kennewick, WA 99336
ATTN: John Zillich

LABORATORY NO. 12532

DATE: Nov. 10, 1988

Project No. 88.4

REPORT ON: WATER

SAMPLE

IDENTIFICATION: Submitted 10/07/88 and identified as shown below:

- 1) Pasco Landfill Tippet Spray
- 2) Pasco Landfill Tippet Well Bead

TESTS PERFORMED AND RESULTS:

parts per billion (ug/L)

	<u>1</u>	<u>2#</u>	<u>Method</u> <u>Blank</u>
1,1-Dichloroethylene	<1.0	<2.0	<1.
1,1-Dichloroethane	<1.0	<2.0	<1.
trans-1,2-dichloroethylene	<1.0	<2.0	<1.
Chloroform	<1.0	<2.0	<1.
1,1,1-Trichloroethane	<1.0	<2.0	<1.
Trichloroethylene	<1.0	<2.0	<1.
Toluene	<1.0	<2.0	<1.
Xylene	<1.0	<2.0	<1.
Tetrachloroethylene	2.0	<2.0	<1.
Vinyl Chloride	<10.	<20.	<10.

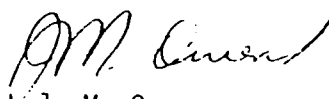
Key

< indicates "less than"

Only 5 mls of Sample was purged due to sample foaming.

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JMO:1aj



This report is submitted for the exclusive use of the person, partnership, or corporation to whom it is addressed. Subsequent use of the name of this company or any member of its staff in connection with the advertising or sale of any product or process will be granted only on contract. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Laucks® Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

Certificate

Technico & Environmental Services

PAGE NO. 2

LABORATORY NO. 12532

APPENDIX

Surrogate Recovery Quality Control Report

Attached are surrogate (chemically similar) compounds utilized in the analysis of organic compounds. The surrogates are added to every sample prior to extraction and analysis to monitor for matrix effects, purging efficiency, and sample processing errors. The control limits represent the 95% confidence interval established in our laboratory through repetitive analysis of these sample types.



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FILE COPY/c

Technico & Enviro Services Co.

(509) 7357283

Suite 33

1776 Fowler

Richland, Wa. 99352

April 25, 1989

Mr. Cris Matthews
Solid Waste Coordinator
Environmental Quality Div.
Washington Dept. of Ecology
N. 461 Monroe Street, Suite 100
Spokane, WA 99205-1295

Subject: Groundwater Monitoring Results at the Pasco
Sanitary Landfill

Dear Mr. Matthews:

This letter provides you with the water quality monitoring results for
the first quarter of 1989.

Sincerely,

John A. Zillich

JAZ/tg

Enclosure

cc: Larry Dietrich
Larry Kamberg

SITE: PASCO		ELEVATION DATA SHEET						
DATE: 3/89								
WELL NO.	DATE	MEASURED AT	TOP OF CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	SPEC COND	pH	TEMP C
JUB CONTROL	3/20/89	TOP OF PYC	411.6	52.80	358.80	540	7.85	16.8
JUB 1	3/20/89	TOP OF PYC	417.1	68.41	348.69			
JUB 2	3/20/89	HOLE IN CAP	408.3	59.35	348.96	560	7.6	16.8
JUB 3	3/20/89	TOP OF PYC	420.4	72.55	347.85			
JUB 4	3/20/89	TOP OF PYC	393.7	40.22	353.48	640	7.45	17.9
EE 1	3/20/89	TOP OF PIPE	417.2	57.49	359.71			
EE 2	3/20/89	HOLE IN CAP	418.9	67.29	351.58	650	7.4	16.6
EE 3	3/20/89	HOLE IN CAP	416.8	65.60	351.17	680	7	16.8
EE 4	3/20/89	TOP OF PIPE	397.6	45.40	352.20			
EE 5	3/20/89	TOP OF PIPE	407.9	58.51	349.39			
EE 6	3/20/89	TOP OF PIPE	427.0	72.25	354.75			
EE 7	3/20/89	TOP OF PIPE	425.6	71.20	354.40			
EE 8	3/20/89	TOP OF PIPE	428.4	71.55	356.85			

TECHNICO & ENVIRO SERVICES CO.
ANALYTICAL REPORT

CLIENT: PASCO LANDFILL
SAMPLED: 3/20/89
REPORTED: 4/20/89

LOCATION	DATE	CHLORIDE (MG/L)	AMMONIA (MG/L)	NITRITE (MG/L)	NITRATE (MG/L)
JUB CONTRL	3/20/89	25.0		<0.05	7.8
EE3	3/20/89	32.5	<0.1	<0.05	0.8
JUB2	3/20/89	22.5	<0.1	<0.05	8.8
JUB4	3/20/89	22.5	<0.1	<0.05	7.6



Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

ANALYTICAL REPORT

Technico & Environmental
1776 Fowler, Suite 33
Richland, Washington 99352

ATTENTION: Mr. John Zillich

DATE SAMPLE RECEIVED: 3/21/89
MONTH COVERED: March, 1989
CLIENT NUMBER: TEC200
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: March 31, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER:	13551	13552	13553	13554	13555	
CLIENT ID:	JUB Control	JUB4	EE3	JUB2	EE2	UNITS

EPA 601 & 602

Vinyl Chloride	<2	<2	<2	<2	N/A	µg/l
1,1-Dichloroethane	<2	<2	70	8	<2	µg/l
Chloroform	<2	<2	10	15	<2	µg/l
1,1,1-Trichloroethane	<2	<2	1000	180	15	µg/l
Trichloroethylene	<2	<2	1100	200	10	µg/l
Tetrachloroethylene	<2	4	60	8	4	µg/l
Total Xylenes	<2	9	200	<2	<2	µg/l

TOC	9	12	21	10	N/A	mg/l
-----	---	----	----	----	-----	------

D.I. Blank - <1.00
46 mg/l Check Standard - 45.0
Acceptable Range - 35-57
Date Analyzed - 3/23/89
Analyst - DD

APPROVED BY:


BRUCE E. BROWN
LABORATORY MANAGER

ALCHEM LABORATORY

104 West 31st Street
Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO & ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

DATE COLLECTED - - -03/20/89
TIME COLLECTED - - -
DATE RECEIVED - - - 03/21/89
DATE REPORTED - - - 04/05/89
SUBMITTED : JOHN ZILlich

ATTENTION: JOHN ZILlich
SOURCE -: JUB CONTROL

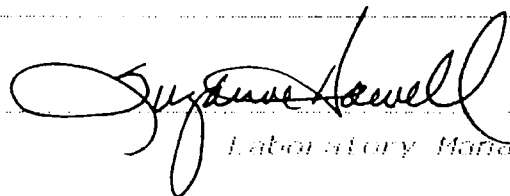
LAB SAMPLE NUMBER - 7250

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
TOTAL COLIFORM	** <1	03/21/89	KS
CHEMICAL OXYGEN DEMAND	11.0	03/31/89	RC
BARIUM	<0.1	04/04/89	DM
COPPER	<0.01	03/21/89	SH
IRON (DISS.)	0.05	03/28/89	SH
MANGANESE (DISS.)	<0.01	03/21/89	SH
ZINC (DISS.)	0.031	03/28/89	SH

COMMENTS: ** NO COLIFORM BACTERIA WERE FOUND ON CULTURE PLATE.

This report for the exclusive use of the client(s) to whom it is addressed. Its disclosure to others for use in advertising is not authorized. These results refer only to the specific sample tested. Liability is limited to cost of analysis.


Laboratory Manager

ALCHEM LABORATORY

104 West 31st Street
Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO & ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: EE 3

DATE COLLECTED - - - 03/20/89
TIME COLLECTED - - -
DATE RECEIVED - - - 03/21/89
DATE REPORTED - - - 04/05/89
SUBMITTED : JOHN ZILlich

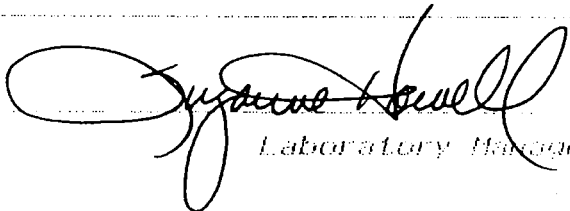
LAB SAMPLE NUMBER - 7251

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
TOTAL COLIFORM	** <1	03/21/89	KS
CHEMICAL OXYGEN DEMAND	20.0	03/31/89	RC
BARIUM	0.2	04/04/89	DM
COPPER	<0.01	03/21/89	SH
IRON (DISS.)	7.90	03/28/89	SH
MANGANESE (DISS.)	1.13	03/21/89	SH
ZINC (DISS.)	0.069	03/28/89	SH

COMMENTS: ** NO COLIFORM BACTERIA WERE FOUND ON CULTURE PLATE.

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Laboratory Manager

ALCHEM LABORATORY

104 West 31st Street
Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO & ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: JUB 2

DATE COLLECTED - - -03/20/89
TIME COLLECTED - - -
DATE RECEIVED - - - 03/21/89
DATE REPORTED - - - 04/05/89
SUBMITTED : JOHN ZILlich

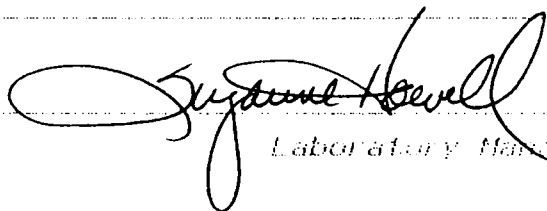
LAB SAMPLE NUMBER - 7252

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
TOTAL COLIFORM	** <1	03/21/89	KS
CHEMICAL OXYGEN DEMAND	4.0	03/31/89	RC
BARIUM	0.1	04/04/89	DM
COPPER	<0.01	03/21/89	SH
IRON (DISS.)	0.23	03/28/89	SH
MANGANESE (DISS.)	0.01	03/21/89	SH
ZINC (DISS.)	0.022	03/28/89	SH

COMMENTS: ** NO COLIFORM BACTERIA WERE FOUND ON CULTURE PLATE.

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Laboratory Manager

ALCHEM LABORATORY

104 West 31st Street
Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO & ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: JUB 4

DATE COLLECTED - - - 03/20/89
TIME COLLECTED - - -
DATE RECEIVED - - - 03/21/89
DATE REPORTED - - - 04/05/89
SUBMITTED : JOHN ZILlich

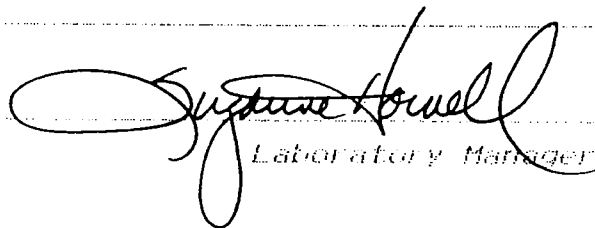
LAB SAMPLE NUMBER - 7253

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
TOTAL COLIFORM	** <1	03/21/89	KS
CHEMICAL OXYGEN DEMAND	13.0	03/31/89	RC
BARIUM	0.2	04/04/89	DM
COPPER	<0.01	03/21/89	SH
IRON (DISS.)	0.31	03/28/89	SH
MANGANESE (DISS.)	<0.01	03/21/89	SH
ZINC (DISS.)	0.014	03/28/89	SH

COMMENTS: ** NO COLIFORM BACTERIA WERE FOUND ON CULTURE PLATE.

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Laboratory Manager

ALCHEM LABORATORY

104 West 31st Street
Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO & ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILLICH
SOURCE -: EE 2

DATE COLLECTED - - - 03/20/89
TIME COLLECTED - - -
DATE RECEIVED - - - 03/21/89
DATE REPORTED - - - 04/05/89
SUBMITTED : JOHN ZILLICH

LAB SAMPLE NUMBER - 7249

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
BARIUM	<0.1	04/04/89	DM
COPPER	<0.01	03/21/89	SH
IRON	0.22	03/28/89	SH
MANGANESE	<0.01	03/21/89	SH

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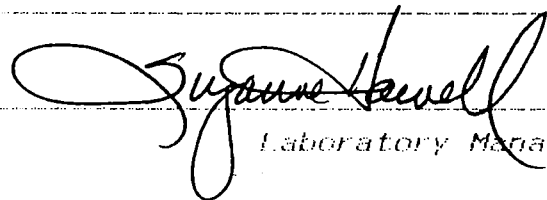

Laboratory Manager

FIG.2. 1,1,1-TRICHLOROETHANE EE2 VS JUB2.

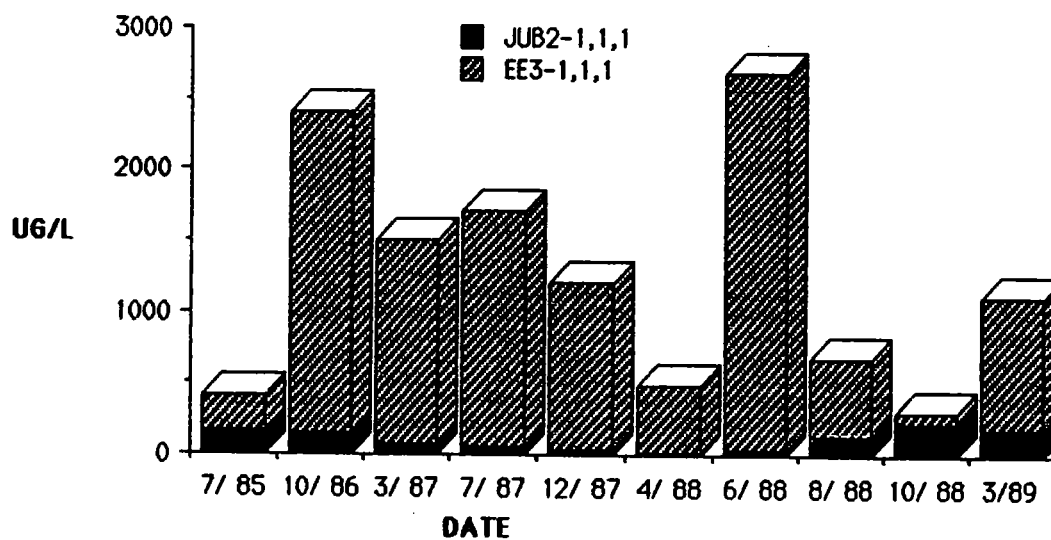
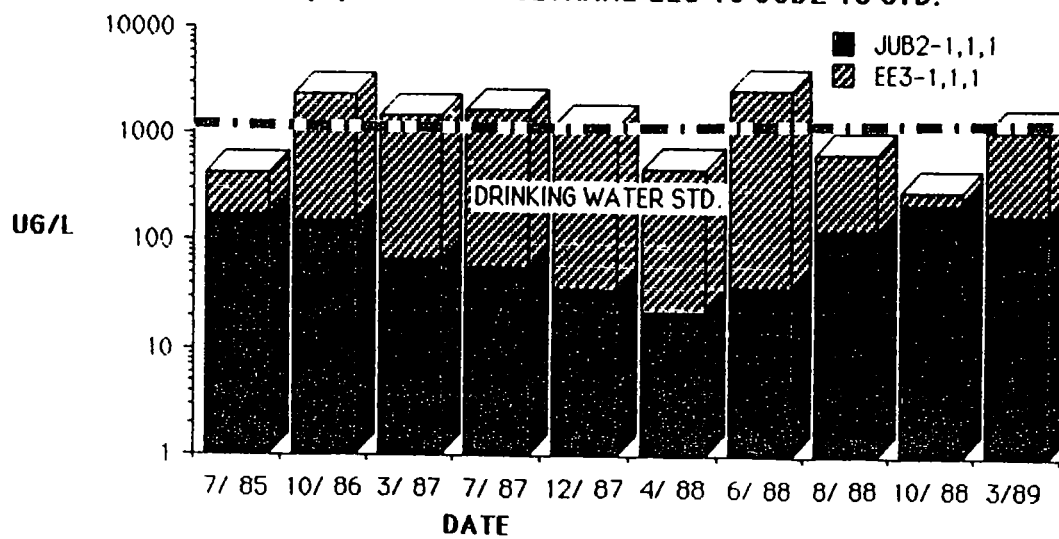


FIG.2L. 1,1,1 TRICHLOROETHANE EE3 VS JUB2 VS STD.



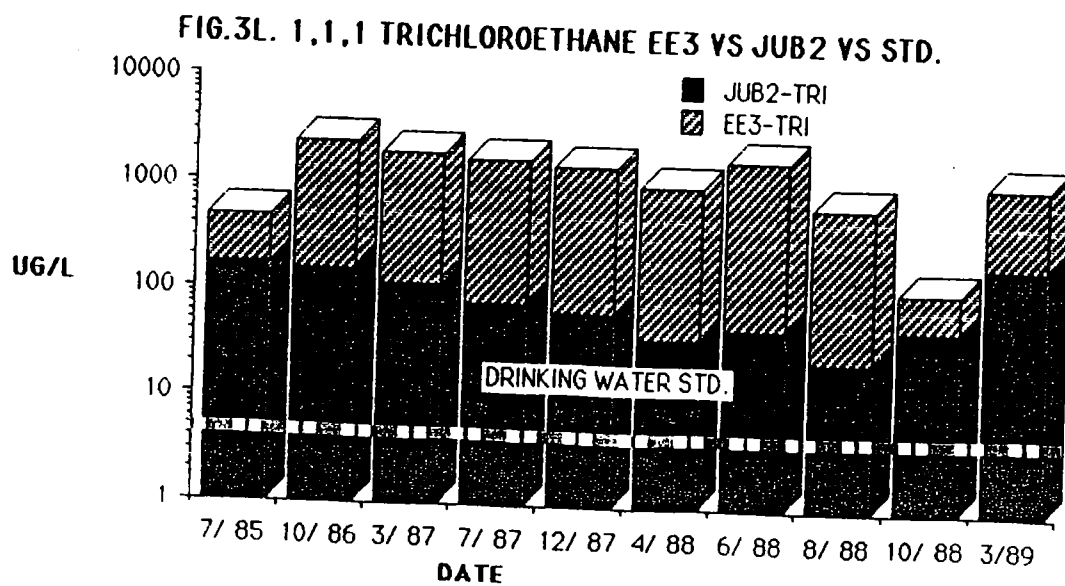
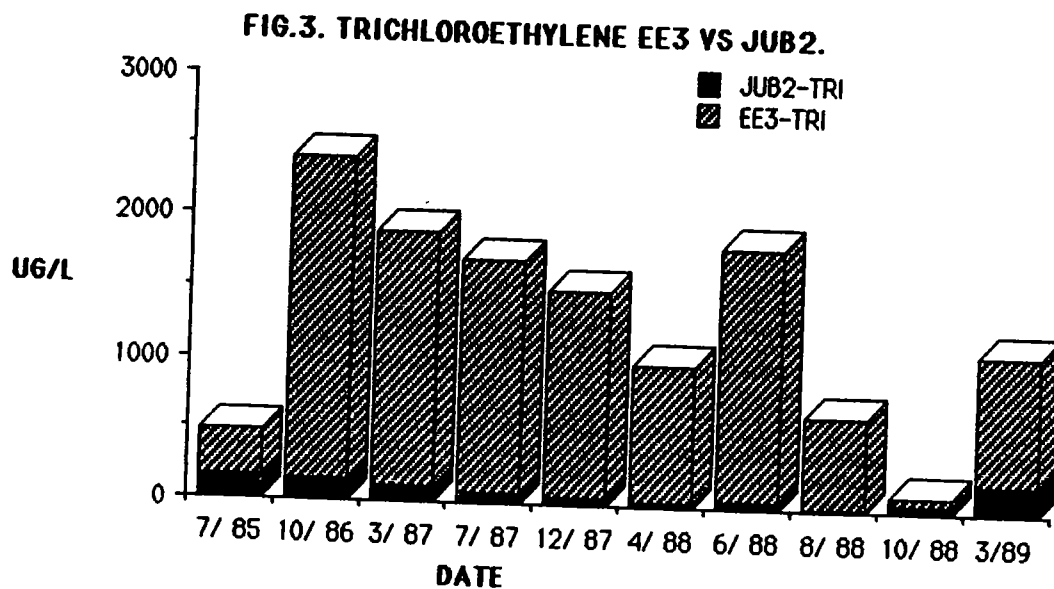


FIG. 4. TETRACHLOROETHYLENE EE3 VS JUB2.

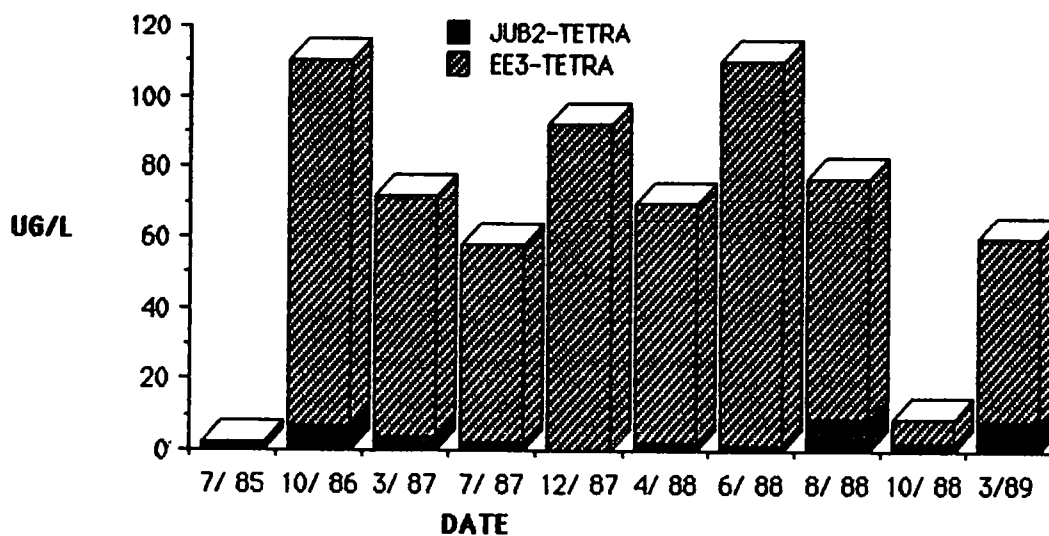
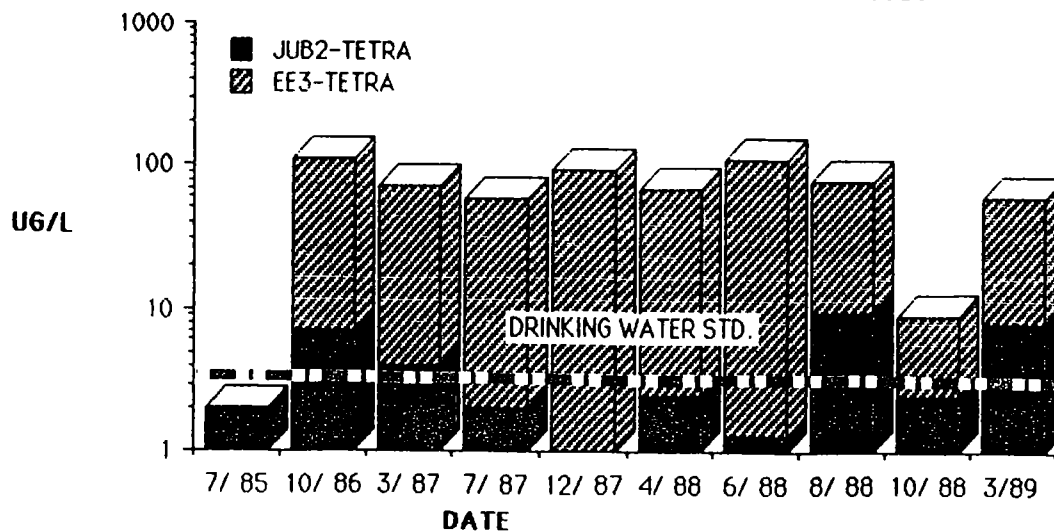


FIG. 4L. TETRACHLOROETHYLENE EE2 VS JUB2 VS STD.



Technico & Enviro Services Co.

(509) 7357283

Suite 33

1776 Fowler

Richland, Wa. 99352

File Copy
Roy Cones

July 25, 1989

Mr. Cris Matthews
Solid Waste Coordinator
Environmental Quality Div.
Washington Dept. of Ecology
N. 461 Monroe Street, Suite 100
Spokane, WA 99205-1295

Subject: Groundwater Monitoring Results at the Pasco
Sanitary Landfill

Dear Mr. Matthews:

This letter provides you with the water quality monitoring results for
the second quarter of 1989.

Sincerely,



John A. Zillich

JAZ/tg

Enclosure

cc: Larry Dietrich
Larry Kamberg

PLF FIELD MEAS 6/3/89

GROUND WATER FIELD DATA SHEET								
SITE: PASO	DATE: 6/3/89	MEASURED AT	TOP OF CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	SPEC COND	pH	TEMP C
WELL NO.	DATE							
JUB CONTROL	6/3/89	TOP OF PVC	411.6	52.00	359.60	540	7.2	200
JUB 1	6/3/89	TOP OF PVC	417.1	68.62	348.48			
JUB 2	6/3/89	HOLE IN CAP	408.3	59.50	348.81	600	7.4	17.6
JUB 3	6/3/89	TOP OF PVC	420.4	72.73	347.67			
JUB 4	6/3/89	TOP OF PVC	393.7	40.22	353.48	640	6.7	
EE 1	6/3/89	TOP OF PIPE	417.2	57.50	359.70			
EE 2	6/3/89	HOLE IN CAP	418.9	67.31	351.56	610	7.6	18.7
EE 3	6/3/89	HOLE IN CAP	416.8	65.56	351.21	735	7	17.9
EE 4	6/3/89	TOP OF PIPE	397.6	45.84	351.76			
EE 5	6/3/89	TOP OF PIPE	407.9	54.51	353.39			
EE 6	6/3/89	TOP OF PIPE	427.0	72.35	354.65			
EE 7	6/3/89	TOP OF PIPE	425.6	71.49	354.11			
EE 8	6/3/89	TOP OF PIPE	428.4	74.12	354.28			

ALCHEM LABORATORY

104 West 31st Street
Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO*ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99336

ATTENTION: JOHN ZILlich
SOURCE -: EE3

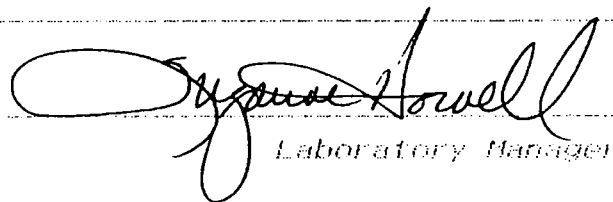
DATE COLLECTED - - - 06/03/89
TIME COLLECTED - - -
DATE RECEIVED - - - 06/07/89
DATE REPORTED - - - 06/29/89
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 8575

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHEMICAL OXYGEN DEMAND	38.0	06/09/89	RC
BARIUM	0.1	06/29/89	DM
COPPER	<0.01	06/23/89	SH
IRON (DISS.)	0.02	06/23/89	SH
MANGANESE (DISS.)	1.05	06/23/89	SH
ZINC (DISS.)	0.008	06/26/89	SH

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Laboratory Manager

ALCHEM LABORATORY

104 West 31st Street
Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO*ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99336

ATTENTION: JOHN ZILlich
SOURCE -: JUB 2

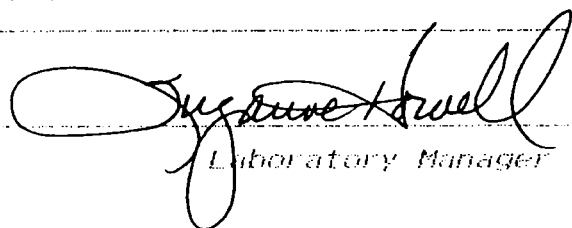
DATE COLLECTED - - -06/03/89
TIME COLLECTED - - -
DATE RECEIVED - - - 06/07/89
DATE REPORTED - - - 06/29/89
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 8576

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHEMICAL OXYGEN DEMAND	6.0	06/09/89	RC
BARIUM	<0.1	06/29/89	DM
COPPER	<0.01	06/23/89	SH
IRON (DISS.)	0.01	06/23/89	SH
MANGANESE (DISS.)	<0.01	06/23/89	SH
ZINC (DISS.)	0.006	06/26/89	SH

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Laboratory Manager

ALCHEM LABORATORY

104 West 31st Street
Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO*ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99336

ATTENTION: JOHN ZILlich
SOURCE -: JUB 4

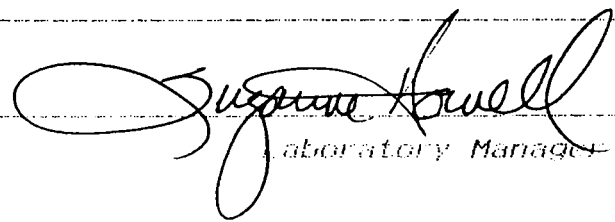
DATE COLLECTED - - -06/03/89
TIME COLLECTED - - -
DATE RECEIVED - - - 06/07/89
DATE REPORTED - - - 06/29/89
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 8577

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHEMICAL OXYGEN DEMAND	10.0	06/09/89	RC
BARIUM	0.1	06/29/89	DM
COPPER	<0.01	06/23/89	SH
IRON (DISS.)	<0.01	06/23/89	SH
MANGANESE (DISS.)	<0.01	06/23/89	SH
ZINC (DISS.)	0.009	06/26/89	SH

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(208) 336-1172

LABORATORY REPORT

TECHNICO*ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99336

ATTENTION: JOHN ZILLICH
SOURCE -: JUB CONTROL

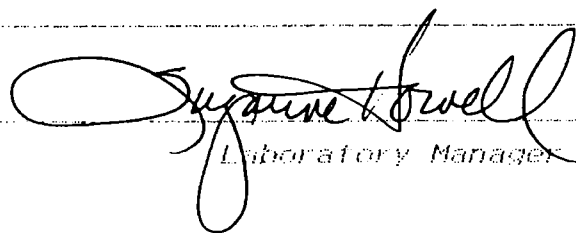
DATE COLLECTED - - -06/03/89
TIME COLLECTED - - -
DATE RECEIVED - - - 06/07/89
DATE REPORTED - - - 06/29/89
SUBMITTED : JOHN ZILLICH

LAB SAMPLE NUMBER - 8578

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHEMICAL OXYGEN DEMAND	11.0	06/09/89	RC
BARIUM	<0.1	06/29/89	DM
COPPER	0.01	06/23/89	SH
IRON (DISS.)	0.03	06/23/89	SH
MANGANESE (DISS.)	<0.01	06/23/89	SH
ZINC (DISS.)	0.011	06/26/89	SH

This report for the exclusive use of the client(s) to whom it is addressed. Its disclosure to others for use in advertising is not authorized. These results refer only to the specific sample tested. Liability is limited to cost of analysis.


Laboratory Manager

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104 W. 31st Street
Boise, Idaho 83714
(208)336-1172

TECHNICO - ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

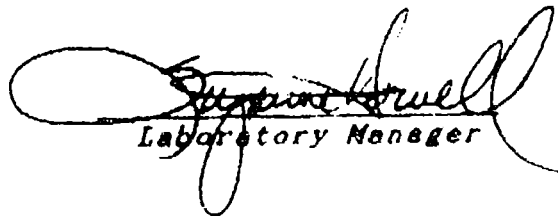
DATE COLLECTED: 06/03/89
DATE RECEIVED: 06/07/89
DATE REPORTED: 06/19/89

ATTENTION: JOHN ZILlich
SOURCE: JUB 2

LABORATORY SAMPLE NO. - 8581

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	39.7
Chloroform	16.1
1,1,1 Trichloroethane	85.1
Trichloroethene	107.0
Tetrachloroethene	5.9
Total Xylene	<2
1,1 Dichloroethene	16.3
trans 1,2 Dichloroethene	<2
Toluene	<2

Analyst: Dale Myers


Laboratory Manager

Note: The portable bladder pump
used to sample JUB Control +
JUB 4 had a leak and was inoperable.
These wells were sampled with an

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(208)336-1172

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1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

DATE COLLECTED: 06/03/89
DATE RECEIVED: 06/07/89
DATE REPORTED: 06/19/89

ATTENTION: JOHN ZILLICH
SOURCE: EE2

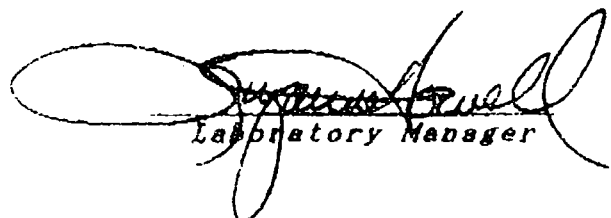
LABORATORY SAMPLE NO. - 8579

=====

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	20.2
Chloroform	2.3
1,1,1 Trichloroethane	50.5
Trichloroethene	52.0
Tetrachloroethene	30.6
Total Xylene	<2
1,1 Dichloroethene	10.2
trans 1,2 Dichloroethene	<2
Toluene	<2

=====

Analyst: Dale Myers


Laboratory Manager

ALCHEM LABORATORY

104 W. 31st Street
Boise, Idaho 83714
(208)396-1172

TECHNICO - ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

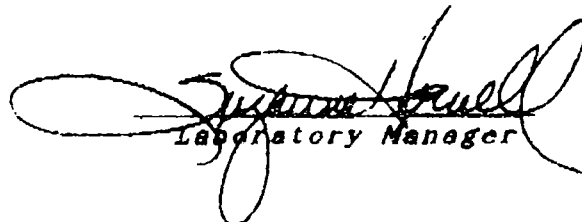
DATE COLLECTED: 06/03/89
DATE RECEIVED: 06/07/89
DATE REPORTED: 06/19/89

ATTENTION: JOHN ZILlich
SOURCE: EE3

LABORATORY SAMPLE NO. - 8580

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	7.82
1,1 Dichloroethane	213.0
Chloroform	35.0
1,1,1 Trichloroethane	591.0
Trichloroethene	684.0
Tetrachloroethene	45.2
Total Xylene	477.0
1,1 Dichloroethene	120.0
trans 1,2 Dichloroethene	<2
Toluene	996.0

Analyst: Dale Myers


Laboratory Manager

TECHNICO & ENVIRO SERVICES CO.
ANALYTICAL REPORT

CLIENT: PASCO LANDFILL
SAMPLED: 6/3/89
REPORTED: 7/20/89

LOCATION	DATE	CHLORIDE	AMMONIA	NITRITE
JUB CONRTOL	6/3/89	25.5	<0.1	<0.05
EE3	6/3/89	42.5	<0.1	<0.05
JUB2	6/3/89	30.0	<0.1	<0.05
JUB4	6/3/89	27.0	<0.1	<0.05

FIG.2. 1,1,1-TRICHLOROETHANE EE2 VS JUB2.

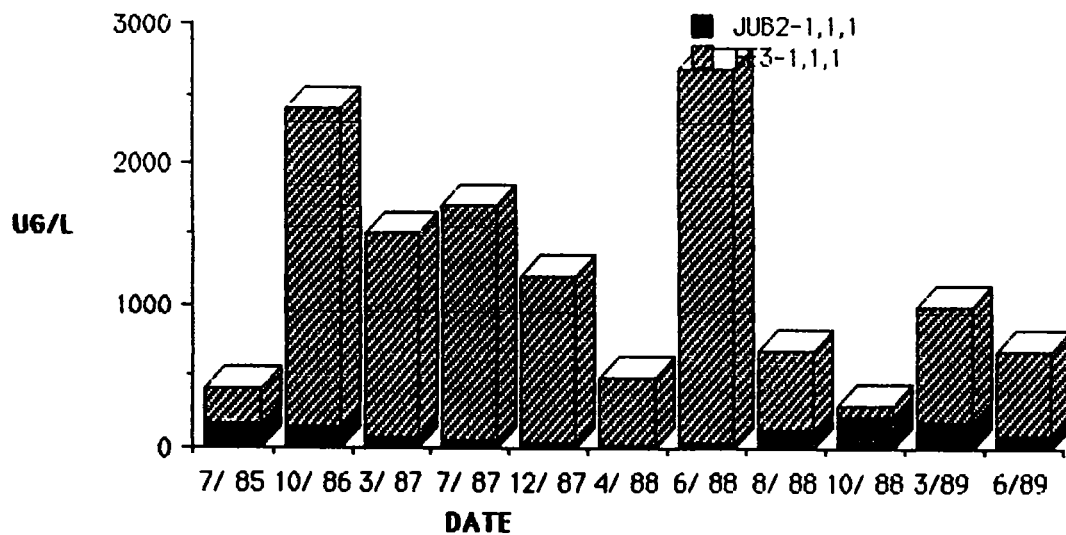


FIG.2L. 1,1,1 TRICHLOROETHANE EE2 VS JUB2 VS STD.

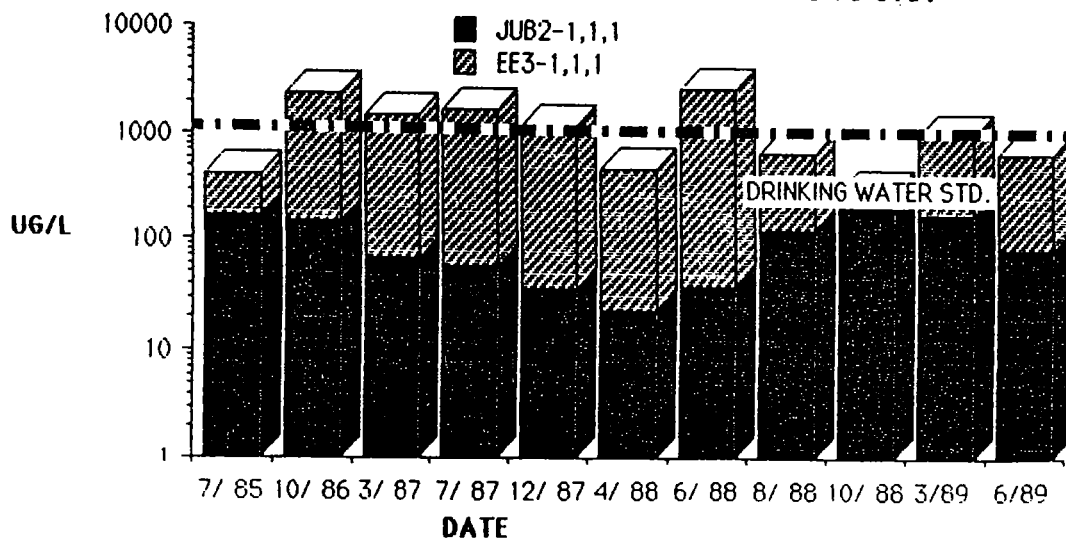


FIG.3. TRICHLOROETHYLENE EE3 VS JUB2.

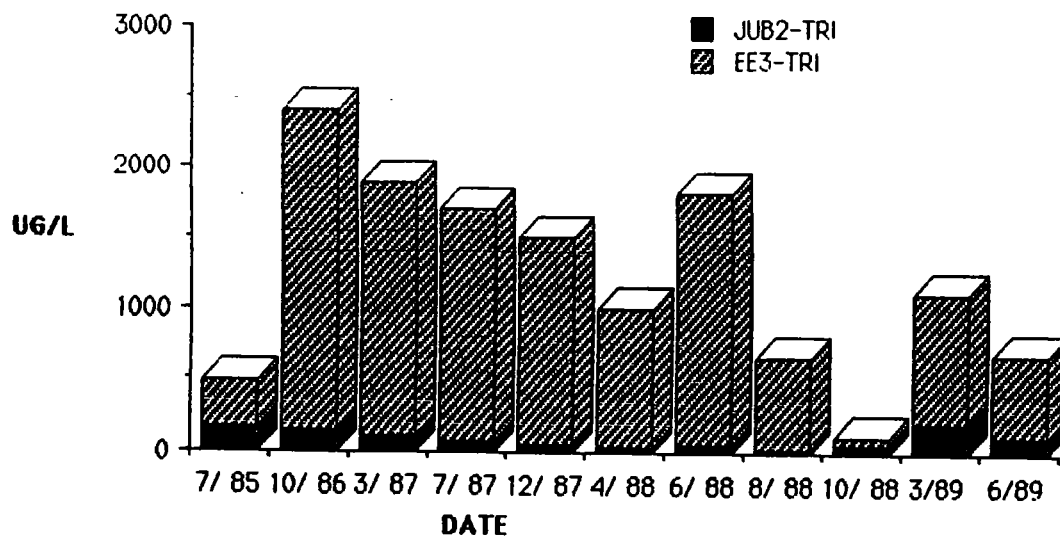


FIG.3L. TRICHLOROETHYLENE EE3 VS JUB2 VS STD.

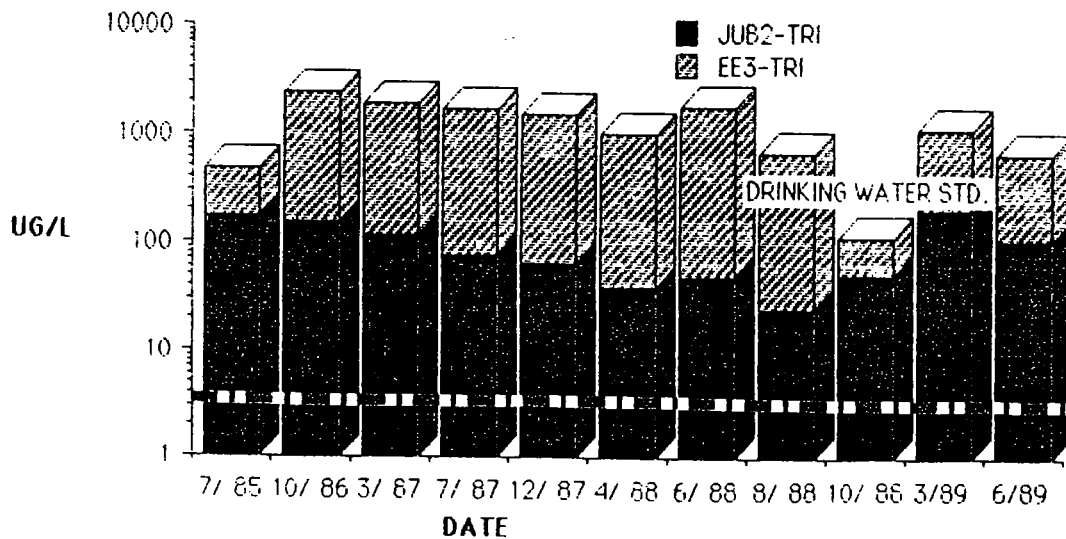


FIG.4. TETRACHLOROETHYLENE EE3 VS JUB2.

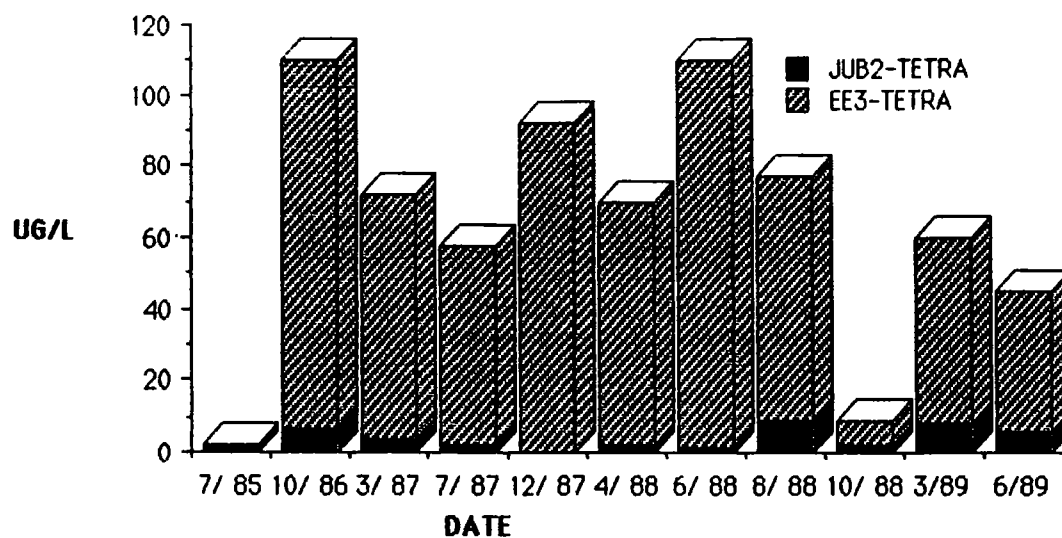
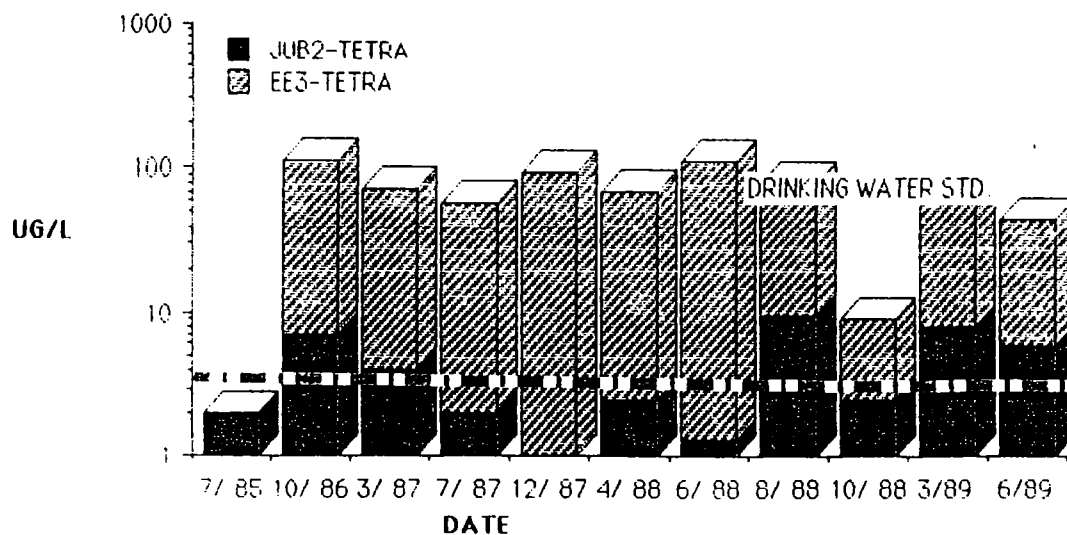


FIG.4L. TETRACHLOROETHYLENE EE2 VS JUB2 VS STD.



Technico & Enviro Services Co.

Project E
File

(509) 735-7283

Suite 33

1776 Fowler

Richland, WA 99352

October 30, 1989

Mr. Cris Matthews
Solid Waste Coordinator
Environmental Quality Div.
Washington Dept. of Ecology
N. 461 Monroe Street, Suite 100
Spokane, WA 99205-1295

Subject: **Groundwater Monitoring Results at the Pasco
Sanitary Landfill**

Dear Mr. Matthews:

This letter provides you with the water quality monitoring results for wells requiring annual sampling plus the routine 3rd quarter sampling results.

Sincerely,


John A. Zillich

JAZ:tg

enclosures

cc: Larry Dietrich
Larry Kamberg



**ANALYTICAL
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Chemists &
Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

ORGANICS ANALYSIS DATA SHEET - METHOD 8150

Lab Sample ID: 1004MB
Matrix: Water

Client Sample ID : Method Blank
Client: Technical Env. Services
Project No: 88-21
VTSR: 10/03/89

Date Extracted: 10/4/89
Date Analyzed: 10/11/89
Volume Extracted: 100 ml.
Conc/Dil Factor: 1 to 5

Data Release Authorized: *Peter M. Hughes*

Report prepared on MAC:C C.P.G. 10/25/89

CAS Number		µg/L
93-72-1	Silvex (2,4,5-TP)	0.2 U
93-76-5	2,4,5-T	2.0 U
88-85-7	Dinoseb	0.4 U
1918-00-9	Dicamba	0.3 U
120-36-5	Dichlorprop	1.0 U
94-75-7	2,4-D	2.0 U
94-82-6	2,4-DB	2.0 U
75-99-0	Dalapon	40 U
7085-19-0	MCP	250 U
94-74-6	MCPA	NA

* Herbicide Surrogate Recovery

2,3-Dichlorophenoxyacetic acid	95 %
--------------------------------	------

Data Qualifiers

- U Indicates compound was analyzed for but not detected at the given detection limit.
- J Indicates an estimated value when the result is less than the calculated detection limit.
- NA Indicates compounds were not analyzed for.



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ORGANICS ANALYSIS DATA SHEET - METHOD 8150

Lab Sample ID: 3774 D
Matrix: Water

Client Sample ID : EE5
Client: Technical Env. Services
Project No: 88-21
VTSR: 10/03/89

Date Extracted: 10/4/89
Date Analyzed: 10/11/89
Volume Extracted: 100 ml.
Conc/Dil Factor: 1 to 5

Data Release Authorized: *John M. Hughes*

Report prepared on MAC:C C.P.G. 10/25/89

CAS Number		µg/L
93-72-1	Silvex (2,4,5-TP)	0.2 U
93-76-5	2,4,5-T	2.0 U
88-85-7	Dinoseb	0.4 U
1918-00-9	Dicamba	0.3 U
120-36-5	Dichlorprop	1.0 U
94-75-7	2,4-D	2.0 U
94-82-6	2,4-DB	2.0 U
75-99-0	Dalapon	40 U
7085-19-0	MCPP	250 U
94-74-6	MCPA	NA

*** Herbicide Surrogate Recovery**

2,3-Dichlorophenoxyacetic acid	109%
--------------------------------	------

Data Qualifiers

- U Indicates compound was analyzed for but not detected at the given detection limit.
- J Indicates an estimated value when the result is less than the calculated detection limit.
- NA Indicates compounds were not analyzed for.



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ORGANICS ANALYSIS DATA SHEET - METHOD 8150

Lab Sample ID: 3774 A
Matrix: Water

Client Sample ID : EE2
Client: Technical Env. Services
Project No: 88-21
VTSR: 10/03/89

Date Extracted: 10/4/89
Date Analyzed: 10/11/89
Volume Extracted: 100 ml.
Conc/Dil Factor: 1 to 5

Data Release Authorized: 

Report prepared on MAO:O O.P.G. 10/25/89

CAS Number		µg/L
93-72-1	Silvex (2,4,5-TP)	0.2 U
93-76-5	2,4,5-T	2.0 U
88-85-7	Dinoseb	0.4 U
1918-00-9	Dicamba	0.3 U
120-36-5	Dichlorprop	1.0 U
94-75-7	2,4-D	2.0 U
94-82-6	2,4-DB	2.0 U
75-99-0	Dalapon	40 U
7085-19-0	MCP	250 U
94-74-6	MCPA	NA

*** Herbicide Surrogate Recovery**

2,3-Dichlorophenoxyacetic acid	112%
--------------------------------	------

Data Qualifiers

- U Indicates compound was analyzed for but not detected at the given detection limit.
- J Indicates an estimated value when the result is less than the calculated detection limit.
- NA Indicates compounds were not analyzed for.



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(206) 621-6490

ORGANICS ANALYSIS DATA SHEET - METHOD 8150

Lab Sample ID: 3774 B
Matrix: Water

Client Sample ID : EE3
Client: Technical Env. Services
Project No: 88-21
VTSR: 10/03/89

Date Extracted: 10/4/89
Date Analyzed: 10/11/89
Volume Extracted: 100 ml.
Conc/Dil Factor: 1 to 5

Data Release Authorized.

Pete McKeig
Report prepared on MAC:C C.P.G. 10/25/89

CAS Number		µg/L
93-72-1	Silvex (2,4,5-TP)	0.2 U
93-76-5	2,4,5-T	2.0 U
88-85-7	Dinoseb	0.4 U
1918-00-9	Dicamba	0.3 U
120-36-5	Dichlorprop	1.0 U
94-75-7	2,4-D	2.0 U
94-82-6	2,4-DB	2.0 U
75-99-0	Dalapon	40 U
7085-19-0	MCP	250 U
94-74-6	MCPA	NA

*** Herbicide Surrogate Recovery**

2,3-Dichlorophenoxyacetic acid	113%
--------------------------------	------

Data Qualifiers

- U Indicates compound was analyzed for but not detected at the given detection limit.
- J Indicates an estimated value when the result is less than the calculated detection limit.
- NA Indicates compounds were not analyzed for.



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Consultants

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(206) 621-6490

ORGANICS ANALYSIS DATA SHEET - METHOD 8150

Lab Sample ID: 3774 C
Matrix: Water

Client Sample ID : EE4
Client: Technical Env. Services
Project No: 88-21
VTSR: 10/03/89

Date Extracted: 10/4/89
Date Analyzed: 10/11/89
Volume Extracted: 100 ml.
Conc/Dil Factor: 1 to 5

Data Release Authorized: 
Report prepared on MAC:C C.P.G. 10/25/89

CAS Number		µg/L
93-72-1	Silvex (2,4,5-TP)	0.2 U
93-76-5	2,4,5-T	2.0 U
88-85-7	Dinoseb	0.4 U
1918-00-9	Dicamba	0.3 U
120-36-5	Dichlorprop	1.0 U
94-75-7	2,4-D	2.0 U
94-82-6	2,4-DB	2.0 U
75-99-0	Dalapon	40 U
7085-19-0	MOPP	250 U
94-74-6	MCPA	NA

* Herbicide Surrogate Recovery

2,3-Dichlorophenoxyacetic acid	109%
--------------------------------	------

Data Qualifiers

- U Indicates compound was analyzed for but not detected at the given detection limit.
- J Indicates an estimated value when the result is less than the calculated detection limit.
- NA Indicates compounds were not analyzed for.

					GROUND WATER			
SITE: PASCO					DATA SHEET			
DATE: 9/89								
WELL NO.	DATE	MEASURED AT	TOP OF CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	SPEC COND	pH	TEMP C
JUB CONTROL	9/28/89	TOP OF PVC	411.6	54.80	356.80	608	7.45	18.9
JUB 1	9/29/89	TOP OF PVC	417.1	70.00	347.10			
JUB 2	9/28/89	HOLE IN CAP	408.3	60.98	347.33	663	6.8	17.4
JUB 3	9/29/89	TOP OF PVC	420.4	74.23	346.17			
JUB 4	9/28/89	TOP OF PVC	393.7	41.75	351.95	663	7.3	17.4
IE 1	9/29/89	TOP OF PIPE	417.2	60.26	356.94			
IE 2	9/28/89	HOLE IN CAP	418.9	67.29	351.58		6.9	17.3
IE 3	9/28/89	HOLE IN CAP	416.8	64.80	351.97	829	6.7	19.0
IE 4	9/29/89	TOP OF PIPE	397.6	45.02	352.58			
IE 5	9/29/89	TOP OF PIPE	407.9	56.50	351.40			
IE 6	9/29/89	TOP OF PIPE	427.0	74.24	352.76			
IE 7	9/29/89	TOP OF PIPE	425.6	73.43	352.17			
IE 8	9/29/89	TOP OF PIPE	428.4	74.64	353.76			



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333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

10 October, 1989

John Zillie
Technical Environmental Services
1776 Fowler Suite 33
Richland, WA 99352

**RE: Project ID:88-4; Samples submitted for TOC analysis;
ARI Job No. 3775.**

Dear Mr. Zillie:

Please find enclosed the TOC data for the above referenced project.

If you have any questions or require additional information, please do not
hesitate to call at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Catherine P. Greer
Project Coordinator

cpg

enclosures
cc: file #03775

ALCHEM LABORATORY

104 West 31st Street
Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO AND ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: JUB 4

DATE COLLECTED - - -09/28/89
TIME COLLECTED - - -9:40 AM
DATE RECEIVED - - - 09/29/89
DATE REPORTED - - - 10/13/89
SUBMITTED : JOHN ZILlich

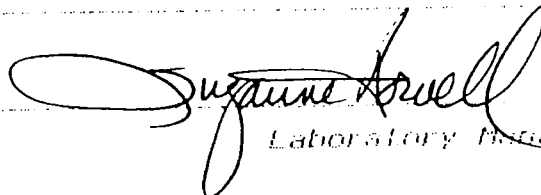
LAB SAMPLE NUMBER - 10589

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
TOTAL COLIFORM	** <1	09/29/89	KS
CHEMICAL OXYGEN DEMAND	<5.0	10/05/89	KS
CHLORIDE	26.0	09/29/89	DM
NITRATE as N	6.77	09/29/89	DM
SULFATE	61.9	09/29/89	DM
CONDUCTIVITY (umhos/cm)	663.0	10/10/89	JR
AMMONIA as N	<0.05	10/13/89	KS
BARIUM	<0.1	10/04/89	DM
COPPER	<0.01	10/10/89	SH
IRON	0.04	10/10/89	SH
MANGANESE	<0.01	10/10/89	SH
IRON (DISS.)	0.01	10/10/89	SH
MANGANESE (DISS.)	<0.01	10/10/89	SH
ZINC (DISS.)	0.014	10/10/89	SH

COMMENTS: ** NO COLIFORM BACTERIA WERE FOUND ON CULTURE PLATE.
NITRITE as N - - - <0.5

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Laboratory Manager

ALCHEM LABORATORY

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Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO AND ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: JUB 2

DATE COLLECTED - - -09/28/89
TIME COLLECTED - - -
DATE RECEIVED - - - 09/29/89
DATE REPORTED - - - 10/13/89
SUBMITTED : JOHN ZILlich

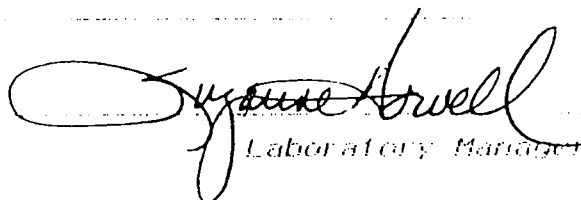
LAB SAMPLE NUMBER - 10590

Results reported unless noted: (Chemistry Analysis as ng/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
CHEMICAL OXYGEN DEMAND	33.0	10/05/89	KS
CHLORIDE	36.3	10/13/89	KS
NITRATE as N	6.94	10/05/89	KS
SULFATE	65.6	10/13/89	KS
CONDUCTIVITY (umhos/cm)	663.0	10/10/89	JR
AMMONIA as N	<0.05	10/13/89	KS
BARIUM	<0.1	10/12/89	DM
COPPER	<0.01	10/10/89	SH
IRON	0.02	10/10/89	SH
MANGANESE	0.01	10/10/89	SH
IRON (DISS.)	0.02	10/10/89	SH
MANGANESE (DISS.)	0.01	10/10/89	SH
ZINC (DISS.)	0.019	10/10/89	SH

COMMENTS: NITRITE as N - -: <0.5

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104 West 31st Street
Boise, Idaho 83714
(208) 336-1172

LABORATORY REPORT

TECHNICO AND ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: EE 3

DATE COLLECTED - - -09/28/89
TIME COLLECTED - - -
DATE RECEIVED - - - 09/29/89
DATE REPORTED - - - 10/13/89
SUBMITTED : JOHN ZILlich

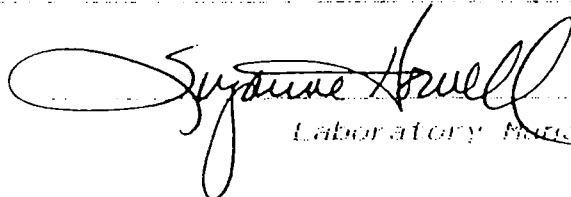
LAB SAMPLE NUMBER - 10591

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
TOTAL COLIFORM	** <1	09/29/89	KS
CHEMICAL OXYGEN DEMAND	13.0	10/05/89	KS
CHLORIDE	39.2	09/29/89	DM
NITRATE as N	0.29	09/29/89	DM
SULFATE	65.2	09/29/89	DM
CONDUCTIVITY (umhos/cm)	829.0	10/10/89	JR
AMMONIA as N	<0.05	10/13/89	KS
BARIUM	0.1	10/04/89	DM
COPPER	<0.01	10/10/89	SH
IRON	10.8	10/10/89	SH
MANGANESE	1.12	10/10/89	SH
IRON (DISS.)	0.12	10/10/89	SH
MANGANESE (DISS.)	1.04	10/10/89	SH
ZINC (DISS.)	0.026	10/10/89	SH

COMMENTS: ** NO COLIFORM BACTERIA WERE FOUND ON CULTURE PLATE.
NITRITE as N - - : <0.5

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Laboratory Manager

ALCHEM LABORATORY

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(208) 336-1172

LABORATORY REPORT

TECHNICO AND ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: EE 2

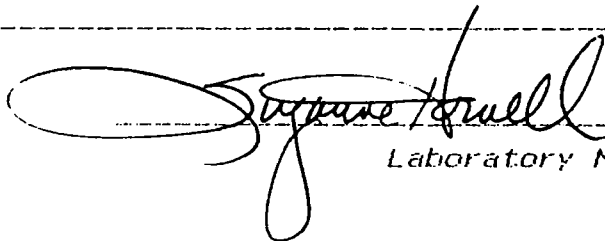
DATE COLLECTED - - -09/28/89
TIME COLLECTED - - -2:37 PM
DATE RECEIVED - - - 09/29/89
DATE REPORTED - - - 10/11/89
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 10593

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
BARIUM	<0.1	10/04/89	DM
COPPER	<0.01	10/10/89	SH
IRON	0.06	10/10/89	SH
MANGANESE	<0.01	10/10/89	SH

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LABORATORY REPORT

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RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILLICH
SOURCE -: WSW

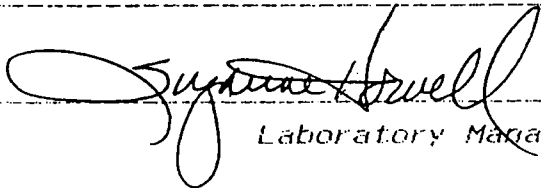
DATE COLLECTED - - -09/28/89
TIME COLLECTED - - -
DATE RECEIVED - - - 10/05/89
DATE REPORTED - - - 10/12/89
SUBMITTED : JOHN ZILLICH

LAB SAMPLE NUMBER - 10747

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
BARIUM	<0.1	10/12/89	DM
COPPER	<0.01	10/10/89	SH
IRON	0.02	10/10/89	SH
MANGANESE	<0.01	10/10/89	SH

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LABORATORY REPORT

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RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILLICH
SOURCE -: BB8

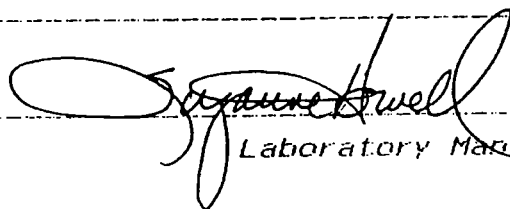
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TIME COLLECTED - - -10:40 AM
DATE RECEIVED - - - 10/05/89
DATE REPORTED - - - 10/12/89
SUBMITTED : JOHN ZILLICH

LAB SAMPLE NUMBER - 10746

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
BARIUM	0.1	10/12/89	DM
COPPER	<0.01	10/10/89	SH
IRON	0.02	10/10/89	SH
MANGANESE	<0.01	10/10/89	SH

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ATTENTION: JOHN ZILlich
SOURCE -: EE7

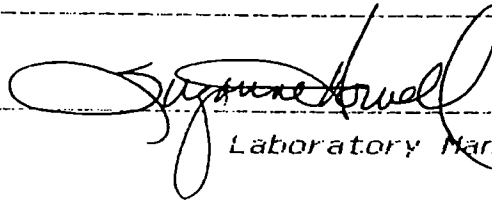
DATE COLLECTED - - -09/28/89
TIME COLLECTED - - -9:11 AM
DATE RECEIVED - - - 10/05/89
DATE REPORTED - - - 10/12/89
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 10745

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
BARIUM	0.1	10/12/89	DM
COPPER	<0.01	10/10/89	SH
IRON	0.22	10/10/89	SH
MANGANESE	0.01	10/10/89	SH

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ATTENTION: JOHN ZILlich
SOURCE -: BE6

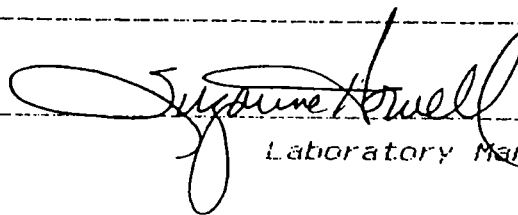
DATE COLLECTED - - -09/28/89
TIME COLLECTED - - -
DATE RECEIVED - - - 10/05/89
DATE REPORTED - - - 10/12/89
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 10744

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
BARIUM	0.1	10/12/89	DM
COPPER	0.03	10/10/89	SH
IRON	2.48	10/10/89	SH
MANGANESE	0.10	10/10/89	SH

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TECHNICO AND ENVIRO SERVICE
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RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: EE5

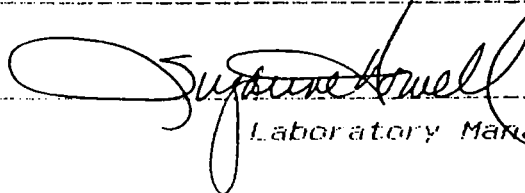
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TIME COLLECTED - - -2:40 PM
DATE RECEIVED - - - 10/05/89
DATE REPORTED - - - 10/12/89
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 10743

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
BARIUM	0.1	10/12/89	DM
COPPER	<0.01	10/10/89	SH
IRON	0.01	10/10/89	SH
MANGANESE	<0.01	10/10/89	SH

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TECHNICO AND ENVIRO SERVICE
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RICHLAND, WASHINGTON 99352

ATTENTION: JOHN ZILlich
SOURCE -: EE4

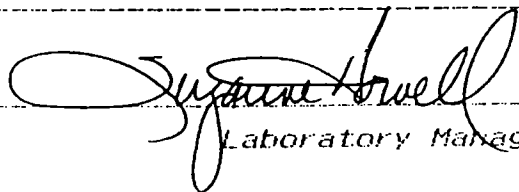
DATE COLLECTED - - -09/28/89
TIME COLLECTED - - -
DATE RECEIVED - - - 10/05/89
DATE REPORTED - - - 10/12/89
SUBMITTED : JOHN ZILlich

LAB SAMPLE NUMBER - 10742

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
BARIUM	0.1	10/12/89	DM
COPPER	<0.01	10/10/89	SH
IRON	0.01	10/10/89	SH
MANGANESE	0.01	10/10/89	SH

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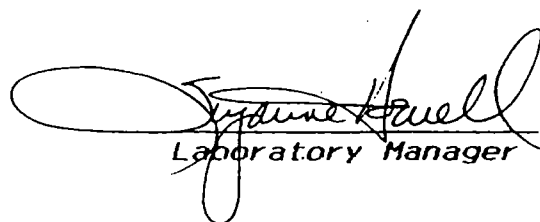
DATE COLLECTED: 09/28/89
TIME COLLECTED: 12:30 PM
DATE RECEIVED: 09/29/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILlich
SOURCE: JUB 2

LABORATORY SAMPLE NO. - 10592

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	73.8
Chloroform	33.1
1,1,1 Trichloroethane	134.0
Trichloroethene	166.0
Tetrachloroethene	9.8
Total Xylene	<2
1,1 Dichloroethene	37.3
trans 1,2 Dichloroethene	<2
Toluene	<2

Analyst: Dale Myers


Laboratory Manager

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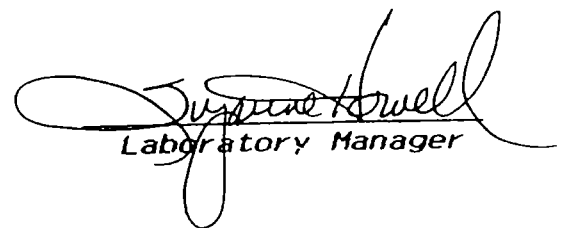
DATE COLLECTED: 10/03/89
TIME COLLECTED:
DATE RECEIVED: 10/04/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILlich
SOURCE: EE 8

LABORATORY SAMPLE NO. - 10718

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	<2
Chloroform	<2
1,1,1 Trichloroethane	<2
Trichloroethene	<2
Tetrachloroethene	<2
Total Xylene	<2
1,1 Dichloroethene	<2
trans 1,2 Dichloroethene	<2
Toluene	<2

Analyst: Dale Myers


Laboratory Manager

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DATE COLLECTED: 10/03/89
TIME COLLECTED:
DATE RECEIVED: 10/04/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILLICH
SOURCE: EE 7

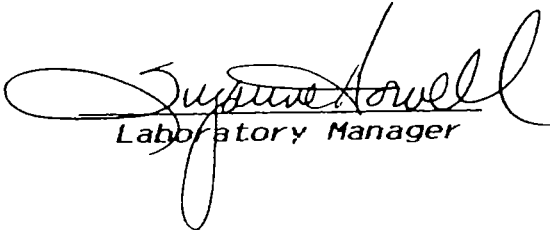
LABORATORY SAMPLE NO. - 10717

=====

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	<2
Chloroform	<2
1,1,1 Trichloroethane	<2
Trichloroethene	<2
Tetrachloroethene	<2
Total Xylene	<2
1,1 Dichloroethene	<2
trans 1,2 Dichloroethene	<2
Toluene	<2

=====

Analyst: Dale Myers


Laboratory Manager

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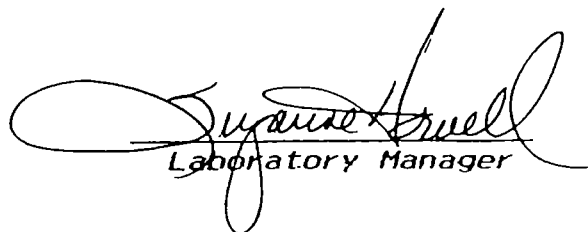
DATE COLLECTED: 10/03/89
TIME COLLECTED:
DATE RECEIVED: 10/04/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILlich
SOURCE: EE 6

LABORATORY SAMPLE NO. - 10716

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	<2
Chloroform	<2
1,1,1 Trichloroethane	<2
Trichloroethene	<2
Tetrachloroethene	<2
Total Xylene	<2
1,1 Dichloroethene	<2
trans 1,2 Dichloroethene	<2
Toluene	<2

Analyst: Dale Myers


Laboratory Manager

ALCHEM LABORATORY

104 W. 31st Street
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TECHNICO - ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

DATE COLLECTED: 10/03/89
TIME COLLECTED:
DATE RECEIVED: 10/04/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILlich
SOURCE: EE 5

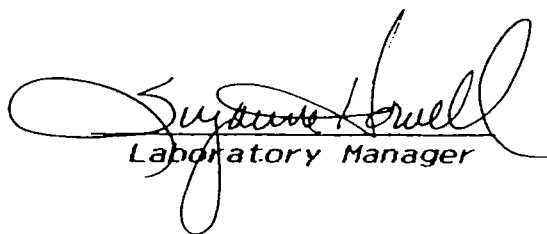
LABORATORY SAMPLE NO. - 10715

=====

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	<2
Chloroform	<2
1,1,1 Trichloroethane	<2
Trichloroethene	<2
Tetrachloroethene	<2
Total Xylene	<2
1,1 Dichloroethene	<2
trans 1,2 Dichloroethene	<2
Toluene	<2

=====

Analyst: Dale Myers


Laboratory Manager

ALCHEM LABORATORY

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TECHNICO - ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

DATE COLLECTED: 10/03/89
TIME COLLECTED:
DATE RECEIVED: 10/04/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILLICH
SOURCE: EE 4

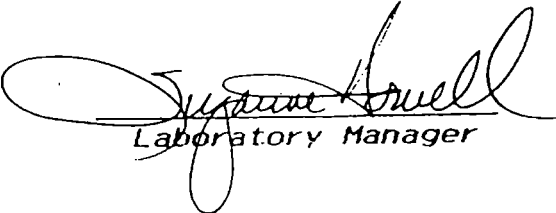
LABORATORY SAMPLE NO. - 10714

=====

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	<2
Chloroform	<2
1,1,1 Trichloroethane	<2
Trichloroethene	<2
Tetrachloroethene	<2
Total Xylene	<2
1,1 Dichloroethene	<2
trans 1,2 Dichloroethene	<2
Toluene	<2

=====

Analyst: Dale Myers


Laboratory Manager

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TECHNICO - ENVIRO SERVICE
1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

DATE COLLECTED: 10/03/89
TIME COLLECTED: 4:00 PM
DATE RECEIVED: 10/04/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILlich
SOURCE: WSW

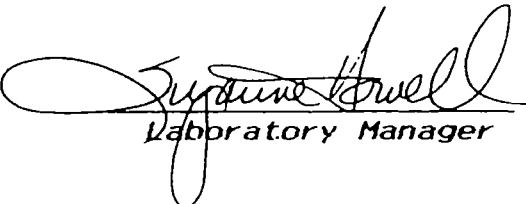
LABORATORY SAMPLE NO. - 10599

=====

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	<2
Chloroform	<2
1,1,1 Trichloroethane	<2
Trichloroethene	<2
Tetrachloroethene	<2
Total Xylene	<2
1,1 Dichloroethene	<2
trans 1,2 Dichloroethene	<2
Toluene	<2

=====

Analyst: Dale Myers


Laboratory Manager

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1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

DATE COLLECTED: 09/28/89
TIME COLLECTED:
DATE RECEIVED: 09/29/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILLICH
SOURCE: EE 3

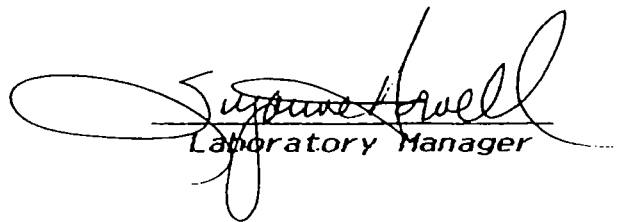
LABORATORY SAMPLE NO. - 10598

=====

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	13.6
1,1 Dichloroethane	380.0
Chloroform	63.0
1,1,1 Trichloroethane	1093.0
Trichloroethene	1035.0
Tetrachloroethene	102.0
Total Xylene	712.0
1,1 Dichloroethene	216.0
trans 1,2 Dichloroethene	<2
Toluene	2100.0

=====

Analyst: Dale Myers


Laboratory Manager

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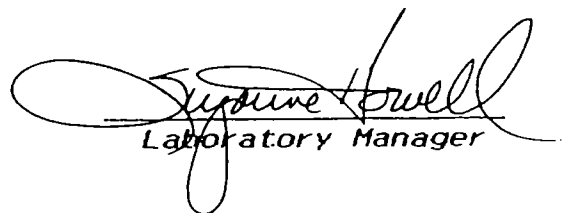
DATE COLLECTED: 09/28/89
TIME COLLECTED: 2:37 PM
DATE RECEIVED: 09/29/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILlich
SOURCE: EE 2

LABORATORY SAMPLE NO. - 10597

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	9.7
Chloroform	<2
1,1,1 Trichloroethane	25.3
Trichloroethene	24.8
Tetrachloroethene	6.4
Total Xylene	<2
1,1 Dichloroethene	4.3
trans 1,2 Dichloroethene	<2
Toluene	<2

Analyst: Dale Myers


Suzanne Howell
Laboratory Manager

ALCHEM LABORATORY

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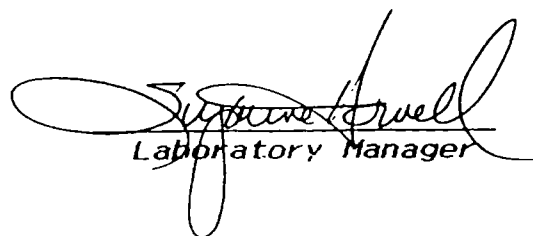
DATE COLLECTED: 09/28/89
TIME COLLECTED: 9:40 AM
DATE RECEIVED: 09/29/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILlich
SOURCE: JUB 4

LABORATORY SAMPLE NO. - 10596

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	<2
Chloroform	<2
1,1,1 Trichloroethane	<2
Trichloroethene	<2
Tetrachloroethene	<2
Total Xylene	<2
1,1 Dichloroethene	<2
trans 1,2 Dichloroethene	<2
Toluene	<2

Analyst: Dale Myers


Laboratory Manager

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1776 FOWLER, SUITE 33
RICHLAND, WASHINGTON 99352

DATE COLLECTED: 09/28/89
TIME COLLECTED:
DATE RECEIVED: 09/29/89
DATE REPORTED: 10/26/89

ATTENTION: JOHN ZILlich
SOURCE: JUB CONTROL

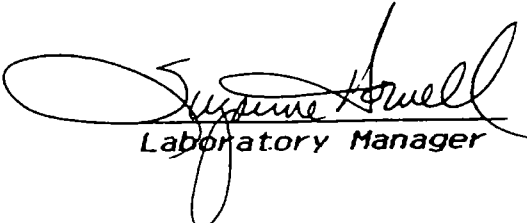
LABORATORY SAMPLE NO. - 10595

=====

ANALYSIS	RESULTS (ppb)
Vinyl Chloride	<2
1,1 Dichloroethane	<2
Chloroform	<2
1,1,1 Trichloroethane	<2
Trichloroethene	<2
Tetrachloroethene	<2
Total Xylene	<2
1,1 Dichloroethene	<2
trans 1,2 Dichloroethene	<2
Toluene	<2

=====

Analyst: Dale Myers


Laboratory Manager